

# Testing Kits for Kinesiologists & Natural Therapists

## Important note to Test Kit Customers, especially those who have purchased LWP kits in the past:

The pandemic (2020-2021) severely affected the supply LWP Test Kits and the range went throughout a transition that is still in process into 2022. In essence there are 2 changes:

- the vial size is changing
- the kits are being supplied with storage boxes

Prior to about mid 2020 all LWP kits came in a zip seal bag without storage boxes. Boxes were available separately if needed. The vials size was 10 x 40mm.

Throughout 2021 the vial size of many kits transitioned to 10 x 50mm, or 1cm longer. In addition, all new vial sizes are presented in a sturdy flat tray storage box. **When ordering kits on line please take note whether a kit you are ordering has made this transition or is still being supplied on the old format.**

Over this period the prices have fluctuated due to these changes and other matters, so currently the edition of this manual does carry any the prices as it once did - but go to our website for all the latest price details on kits.

Other details:

- Postage will range from \$7.00 to \$13.00 (\$12 to \$26 for Express).
- Individual vials may be purchased from kits but there is quite a wait for supply.
- Ongoing single vials & update vials - see website single vials page:  
<https://www.kinesiologyshop.com/single-testing-vials/>

## Testing Kit Boxes & Empty Vials:

Likewise supply of boxes and empty vials were also affected by the pandemic and usual product has been difficult to keep in stock, or had to be deleted altogether. See our Test Kit Accessories page on the website for details & prices:

<https://www.kinesiologyshop.com/test-kit-accessories/>

## Pathology & Histology Testing Kits

A Range of Kinesiological Testing Kits for Anatomy & Pathologies of the Body Organs & Systems (contents lists page 3). Above changes to vial size & boxes apply.

**[www.kinesiologyshop.com](http://www.kinesiologyshop.com) - from there go to our test kits category**

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# CONTENTS PAGES

Test Kit Title.....	Page .....	Cost .....
		<b>See Website</b>
Introduction.....	4	
<b>Acupuncture Meridians</b> (14 vials).....	6	\$
<b>Amino Acids</b> (21 vials).....	7	\$
<b>Anaesthetic &amp; Pain</b> (48 vials).....	9	\$
<b>Animals: Canine</b> (60 vials).....	12	\$
<b>Animals: Equine</b> (30 vials).....	15	\$
<b>Animals: Feline # 1</b> ( 85 vials).....	17	\$
<b>Animals: Feline # 2</b> (33 vials).....	20	\$
<b>Bach Flower Remedies</b> (39 vials).....	22	\$
<b>Bacteria 1</b> (56 vials).....	25	\$
<b>Bacteria 2</b> (37 vials).....	28	\$
<b>Bacteria 3 (56)</b> .....	30	\$
<b>Biofilms</b> (15 vials).....	33	\$
<b>Body Biochemicals 1</b> (25 vials).....	34	\$
<b>Body Biochemicals 2</b> (25 vials).....	36	\$
<b>Body Biochemicals 3</b> (25 vials).....	38	\$
<b>Body Biochemicals 4</b> (25 vials).....	40	\$
<b>Body Biochemicals 5</b> (25 vials).....	41	\$
<b>Body Biochemicals 6</b> (25 vials).....	43	\$
<b>Body Biochemicals 7</b> (25 vials).....	45	\$
<b>Bowel Nosodes</b> (11 vials).....	47	\$
<b>Candida</b> (13 vials).....	48	\$
<b>Chemicals &amp; Inhalants</b> (39 vials).....	49	\$
<b>Cytokines &amp; Immune # 1</b> (40 vials).....	51	\$
<b>Cytokines &amp; Immune # 2</b> (13 vials).....	54	\$
<b>Dental</b> (50 vials).....	55	\$
<b>Digestive Enzyme</b> (16 vials).....	56	\$
<b>Drinks: Alcoholic A</b> (26 vials).....	57	\$
<b>Drinks: Alcoholic B</b> (21 vials).....	57	\$
<b>Earth Energies</b> (7 vials).....	58	\$
<b>Electromagnetic (updated 2019)</b> (25 vials).....	59	\$
<b>Elements</b> (84 vials).....	60	\$
<b>Emotional States</b> (10 composite vials).....	66	\$
<b>Essential Oils A</b> (37 vials).....	68	\$
<b>Essential Oils B</b> (37 vials).....	69	\$
<b>Foods A</b> (56 vials).....	70	\$
<b>Foods B</b> (52 vials).....	71	\$
<b>Foods C</b> (50 vials).....	72	\$
<b>Foods D</b> (42 vials).....	73	\$
<b>Foods E</b> (25 vials).....	73	\$
<b>Foods F</b> (25 vials).....	74	\$
<b>Foods G</b> (50 vials).....	75	\$
<b>Food - Mushrooms</b> (14 vials).....	76	\$
<b>Food - Milk &amp; Milk Substitutes</b> (18 vials).....	77	\$
<b>Food - Flours</b> (41 vials).....	78	\$
<b>Food - Pulses</b> (19 vials).....	79	\$
<b>Food - Toxins</b> (10 vials).....	79	\$
<b>Food - Vegetable Oils</b> (29 vials).....	80	\$
<b><i>Foods (above) arranged alphabetically.....</i></b>	<b>81</b>	
<b>Food Phenolic Compounds</b> (14 vials).....	86	\$
<b>Food Additive A</b> (31 vials).....	87	\$
<b>Food Additive B</b> (25 vials).....	88	\$
<b>Fragrance</b> (27 vials).....	90	\$
<b>Fungus 1 Protozoa, Rickettsia &amp; Chlamydia</b> (30 vials).....	92	\$
<b>Fungus 2</b> (30 Vials).....	94	\$
<b>Fungus 3</b> (24 vials).....	96	\$
<b>Human Histology - Healthy Tissues</b> (75 Vials).....	98	\$
<b>Homoeopathic A</b> (54 vials).....	101	\$
<b>Homoeopathic B</b> (50 vials).....	103	\$
<b>Hormone</b> (30 vials).....	105	\$
<b>Immunoglobulin</b> (5 vials).....	107	\$

Test Kit Title.....	Page .....	Cost See Website
<b>Industrial &amp; Environmental Chemicals 1</b> (25 vials) .....	108	\$
<b>Industrial &amp; Environmental Chemicals 2</b> (25 vials) .....	109	\$
<b>Industrial &amp; Environmental Chemicals 3</b> (25 vials) .....	111	\$
<b>Industrial &amp; Environmental Chemicals 4</b> (25 vials) .....	113	\$
<b>Interleukins</b> (12 vials).....	115	\$
<b>Invasive Organisms - Composite</b> (8 vials).....	116	\$
<b>Lectins</b> (7 Vials).....	118	\$
<b>Lyme Plus</b> (61 vials).....	119	\$
<b>Medicinal Herbs</b> (50 vials) .....	121	\$
<b>Medicinal Herbs for Women</b> (25 vials).....	123	\$
<b>Metals &amp; Minerals</b> (32 vials).....	124	\$
<b>Mycotoxins</b> (27 vials).....	129	\$
<b>Neurotransmitter</b> (13 vials).....	131	\$
<b>Nutrition 1</b> (21 vials).....	133	\$
<b>Nutrition 2</b> (25 vials).....	135	\$
<b>Parasite 1</b> (31 vials).....	137	\$
<b>Parasite 2</b> (35 vials).....	139	\$
<b>Parasite 3</b> (28 vials).....	142	\$
<b><i>Pathology &amp; Histology Test Kit Info</i></b> .....	144	
<b>PH1: Respiratory System</b> (25 vials).....	144	\$
<b>PH2: Lower Digestive</b> (28 vials) .....	145	\$
<b>PH3: Upper Digestive</b> (31 vials) .....	147	\$
<b>PH4: Endocrine</b> (27 vials).....	148	\$
<b>PH5: Gall Bladder &amp; Liver</b> (28 Vials).....	150	\$
<b>PH6: Brain &amp; Nervous System</b> (25 vials).....	151	\$
<b>PH6B: more Brain &amp; Nervous System</b> (50 vials) .....	153	\$
<b>PH6C: yet more Brain &amp; Nervous System</b> (26 vials) ...	157	\$
<b>PH6D: Cranial Nerves</b> (26 vials).....	159	\$
<b>PH7: Skeletal System</b> (25 Vials).....	160	\$
<b>PH7B: Vertebrae</b> (34 Vials) .....	161	\$
<b>PH8: Muscle &amp; Connective Tissue</b> (26 vials) .....	162	\$
<b>PH9: Urinary (inc. Kidney)</b> (33 vials).....	163	\$
<b>PH10: Lymph, Blood, Immune</b> (37 vials).....	165	\$
<b>PH11: Circulatory</b> (27 Vials) .....	167	\$
<b>PH12: Female Breast</b> (25 vials).....	169	\$
<b>PH13: Female Reproductive</b> (33 Vials).....	170	\$
<b>PH13B: More Female Reproductive</b> (33 Vials).....	172	\$
<b>PH14: Male Reproductive</b> (25 vials).....	174	\$
<b>PH15: Neonatal, Pregnancy</b> (21 vials).....	175	\$
<b>PH16: Ears, Nose, Eyes, Mouth</b> (25 vials).....	176	\$
<b>PH17: Skin</b> (26 vials).....	177	\$
<b>PH18: Chromosomes Plus</b> (26 vials).....	179	\$
<b>Periodontal</b> (35 vials).....	180	\$
<b>Personal Care</b> (31 Vials) .....	182	\$
<b>Pesticide 1</b> (25 vials) .....	184	\$
<b>Pesticide 2</b> (25 vials) .....	186	\$
<b>Pesticide 3</b> (25 vials) .....	188	\$
<b>Pollens, Dusts &amp; Moulds 1</b> (22 vials).....	190	\$
<b>Pollens, etc 2</b> (28 vials).....	191	\$
<b>Protozoa</b> (37 vials).....	193	\$
<b>Recreational Drugs</b> (14 vials).....	196	\$
<b>Salicylates</b> (10 Vials).....	197	\$
<b>SIBO</b> (Small Intestine Bacterial Overgrowth) (25 vials)...	198	\$
<b>Spiders &amp; Scorpions</b> (12 vials).....	200	\$
<b>Sweeteners</b> (24 vials).....	201	\$
<b>Vaccination</b> (58 vials).....	202	\$
<b>Virus 1</b> (21 vials).....	204	\$
<b>Virus 2</b> (25 vials) .....	205	\$
<b>Virus 3</b> (21 vials).....	207	\$
<b>Weight</b> (38 vials).....	209	\$
Single vials .....	211	

## Overview of the range of Test Kits

For people interested in food sensitivity/allergy testing there are three extensive food kits and two food additive test kits. There are additional food test kits that have added over time that contain less common foods. Plus there is food phenolic kit and kits on themes such as milk & milk solids, vegetable oils, pluses and flours.

Environmental sensitivities can cause serious problems for some people and a wide range of chemicals can be found in the chemical and inhalant test kit, and industrial and environmental test kit 1 through 4. There are pesticides test kits plus moulds, pollens, animal hair etc. are covered in the two pollens kits.

There is also a dental test kit containing many of the substances used routinely in dental work, and a fragrance kit which covers some of the most common fragrances used in perfumes, personal care products and household products.

Some people have issues with vitamins, minerals or amino acids (the building blocks of protein). For these people nutritional test kit 1 & 2, a common metals test kit (for the minerals - however this kit also includes heavy metals) and the amino acid test kit.

Bacteria, viruses, fungi and parasites feature in a number of complementary test kits, giving a wide range of invasive organisms. The bacteria test kit particularly appropriate for people who have serious, long-standing respiratory problems. This test kit includes many organisms that are commensurable of the human body. This means that they are naturally present and are thought normally not to be harmful. However, for some people this is clearly not the case.

Although hormones, enzymes etc. are naturally occurring in the body, they can produce problems when the body does not adequately recognize them. This can result in hormonal or enzyme imbalance and a myriad of health problems. There are several kits relevant for this: hormones, digestive enzymes and the various body biochemical test kits.

There are two homeopathic test kits and some flower and gem remedy test kits. These provide a low-cost way of establishing which remedies a client needs to take, and they can also be used as part of kinesiology procedures too.

There are 22 pathology/histology kits. These contain vials of both healthy & diseased tissues. Please read the comments about their use at the beginning of the section that outlines these kits. There is also a separate histology kit containing most the healthy tissues from the 22 kits. Please be aware if you buy this kit and then subsequently buy any of the Histology/Pathology kits you will have a lot of duplicate vials.

## The Vials

The samples are in small glass vials. Glass is preferred because some people test unreliably through plastic. The Bach Flower test kit contains actual samples from one of the producers. The homeopathic test kits contain 2 tablets from a highly respected U.K. homeopathic supplier (Helios). These are in the potency 30C. The other samples are prepared radionically in the 30th homeopathic potency and so have (as far as we know) an indefinite shelf life.

The range consists of over 100 different kits. New ones are added from time to time as research and availability allow.

Many of the test kits contain energy patterns in brandy and water or just sterile-filtered water made up in homeopathic potencies generated using a homeopathic simulator. There are three main reasons for this. Food test kits, amino acids, essential oils etc. have a longer life in this form. Some of the Body Biochemicals have to be kept frozen, when not in the homeopathic form. The vials are 1-ml glass vials, approximately a third full, ample for testing purposes.

## Storage

It is important to store these kits out of direct sunlight, away from strong smells (such as aromatherapy oils, herbs, etc.) and away from magnets. However, some practitioners use magnets in their testing procedures, and so far this has not caused any problem with the vials. Short exposure is OK, it is where you store the vials that is the main consideration. Such is also the case when traveling through airports etc. Think long term care with the vials, not short term experience.

There are no problems about storing different kits in the same box, although you might want to organise them in a particular way for other reasons, e.g. it is fine to store bacteria vials and flower remedies in the same box, although you might want to store all your flower remedies together for logical reasons.

Some people seem concerned about bacteria, parasite and similar vials in some way 'contaminating' other vials, because such vials have a 'bad' energy. This concern is completely unnecessary, and, in fact, labeling test kit vials as containing 'bad' or 'good' energies does not stand up to any scrutiny at all. There are many bacteria that are helpful to the human body, e.g. gut bacteria make some B vitamins and vitamin K; other bacteria help the skin maintain its protective acid mantle. Homeopathic remedies are often made from lethal substances, e.g. snake venom or a highly toxic metal. A homeopathic remedy made from a 'benign' substance can cause much upset when used inappropriately. Many flower remedies are made from highly toxic material, e.g. monkshood or mistletoe.

Perhaps more importantly, viewing vials as 'bad' can lead you subconsciously to be nervous of using these vials, thus depriving clients of the most efficient way to help them.

The energy of these vials should not be viewed as 'good' or 'bad', but merely as 'appropriate' or 'inappropriate' at this time for this person.

## Which Test Kits Should I Buy?

We sell over 100 test kits and, if you bought them all, it would cost you many thousands. Occasionally people do this, but for most it is not an option. So the question often asked is: Which kits should I buy first? There's no single answer to this, but below is some guidance by asking you questions:

### **Do you have a method for correcting any problems you find?**

If not at all, the first thing suggested is to buy the Energy Mismatch book and read that. (To use this book you need to have some method of testing, e.g. kinesiology or EAV.)

### **What type of people are you working with?**

If the answer is children, you may look at buying Food Additive A, Food Additive B and Vaccination kits. If you mainly work with women, the best kits to buy are probably Personal Care, Hormones and Body Biochemicals 1, 2, 3, 4 and 5.

### **What interests you?**

There are probably lots of different ways to achieve the same results with people, even just thinking in terms of test kits. So, if you're fascinated by allergy problems, think about buying Food A, B and C, Food Additives A and B, Chemical and Inhalants, Industrial and Environmental 1 and 2, and the Personal Care and Fragrance Kits.

If you're interested in 'bugs', consider Parasites 1 and 2, Virus, Bacteria and Fungus 1 and 2 & Lyme kits.

If you feel that no matter what the problem, it's important to get nutrition sorted out, choose Digestive Enzymes, Nutrition 1 and 2 and the Common Metals Kits. If your training and reading emphasise the importance of Candida, you will probably want to buy the Fungus 1 kit or the Candida Kit.

### **Are you drawn to a particular test kit?**

Sometimes people say they feel drawn to a particular test kit without being able to explain why. If you feel this way, it is recommended you buy the kit whatever it is.

Alternatively you could buy the most popular kits. Here's the favourite kits:

Hormones	Food Kits A, B & C
Vaccination	Pollens Dust & Moulds 1
Virus 1	Parasites 1
Invasive Organisms	Amino Acids
Common Metals (Metals & Minerals)	Lyme Plus Kit (more recently)

**If you have any queries please do not hesitate to call or email.**

# Acupuncture Meridian Test Kit

14 vials

*These energy signatures were produced originally by an experienced acupuncturist stimulating the meridian and taking an EAV reading.*

AM 01 **Central Meridian**

AM 02 **Governing Meridian**

AM 03 **Stomach Meridian**

AM 04 **Spleen Meridian**

AM 05 **Heart Meridian**

AM 06 **Small Intestine Meridian**

AM 07 **Bladder Meridian**

AM 08 **Kidney Meridian**

AM 09 **Circulation-Sex/ Pericardium Meridian**

AM 10 **Triple Warmer Meridian**

AM 11 **Gall Bladder Meridian**

AM 12 **Liver Meridian**

AM 13 **Lung Meridian**

AM 14 **Large Intestine Meridian**



# Amino Acid Test Kit

## 21 vials

*Energy patterns of the 20 main individual amino acids plus one mixed sample.*

Amino acids are divided into essential (cannot be manufactured by the body and, therefore, must be taken in food) and non-essential. Amino acids are the building blocks of protein, including human protein.

### **Other amino acids are in the body biochemical kits.**

In nature more than 100 amino acids are found, but only 20 are used in humans. The reason for this is that these 20 provide all the chemical and size groups needed to make a very large number of proteins. (Once again nature or God is being economical.) These 20 different amino acids join up in a variety of ways to make approximately 250,000 different human proteins. The same amino acid can occur many times along a chain making up a specific protein.

Proteins consist of amino acids that always contain carbon, hydrogen, oxygen and nitrogen. Proteins are giant molecules made by linking large numbers of amino acids, end to end, so they form a chain.

#### **A1 Arginine**

Stimulates human growth hormone which stimulates defence function; accelerates wound healing; detoxifying ammonia; normal sperm count; glucose control mechanism in blood; enhances fat metabolism; involved in insulin production; arthritis; inhibition of tumour development; premature ageing; overweight; fatigue; memory.

#### **A2 Aspartic Acid**

Protects liver; detoxification of ammonia; promotes uptake of trace elements in the gut; involved in the energy cycle; involved in transportation of magnesium and potassium to cells; fatigue.

#### **A3 Carnitine**

Sperm motility; protects heart; major role in transferring fatty acids into cells where used as energy sources; mobilising fatty deposits in obesity; removal of ketones from blood; reduction of triglycerides in the blood; reduces surface fats in cellulite; circulatory problems; fatigue; muscle weakness; alcohol damage to liver; glucose tolerance in diabetics; cardiac disease; angina.

#### **A4 Citrulline**

Can be made from ornithine by body; can be converted in body to arginine; detoxifies ammonia (nitrogen) in blood; fatigue; stimulates immune system.

#### **A5 Cyseine**

Derived from methionine or serine in the liver; powerful antioxidant; major detoxifying agent; part of glucose tolerance factor; using B6; strength of hair; factor in insulin production; most chronic diseases; removing heavy metals; protects against alcohol, cigarette smoking and pollution; in iron deficiency; prevention of cataracts.

#### **A6 Cystine**

Part of insulin molecule; heavy metal chelator; psoriasis; eczema; tissue healing after surgery.

#### **A7 Glutamine**

Dominant amino acids in cerebro-spinal fluid and serum; passes through blood/brain barrier; powerful "brain fuel"; gives rise to GABA which is a calming agent; helps maintain body's nitrogen level; used in production of other non-essential amino acids; protects from alcohol; reduces desire for alcohol and sometimes sugar; heals peptic ulcers; depression; blunts carbohydrate craving; hypoglycaemia; schizophrenia; senility; fatigue; memory improvement; concentration; smoking.

#### **A8 Glutathione**

Inhibits free radical damage to fat cells; retards ageing process; neutralises petro-carbons and chlorine; detoxifying; in short supply in diabetics; protects liver against alcohol; protects against radiation; chelates heavy metals; regression of tumours in animals; arthritis; skin problems.

#### **A9 Histidine**

Metabolised into histamine which is important for smooth muscle function and contraction and expansion of blood vessels; sexual arousal; auditory nerve function; stimulates production of red and white blood cells; schizophrenia; protects against radiation damage; chelates toxic metals; rheumatoid arthritis; digestive tract ulcers; nausea during pregnancy; hearing problems; allergies; anxiety; low stomach acid; smoking.

### **A10 Isoleucine**

Chronically sick; formation of haemoglobin; energy production; reduces tremors and twitching in animals; body building.

### **A11 Leucine**

Chronically sick; essential for growth; wound healing of skin and bones; energy production; Parkinson's disease; enhances effects of endorphins.

### **A12 Lysine**

Often low in vegetarian diets; important for children's growth and development; involved in synthesis of carnitine, so important in fat metabolism; formation of antibodies; dietary deficiency leads to increased calcium excretion; herpes simplex; concentration; fatigue; dizziness; anaemia; visual disorders; nausea; hypoglycaemia.

### **A13 Methionine**

Antioxidant preventing free radical damage; helps produce choline, adrenaline, lecithin and B12; assists gallbladder function; precursor of taurine, cystine and cysteine. Heavy metal and histamine detoxifier; strengthens hair follicles; detoxifies liver; affects selenium bio-availability; arthritic and rheumatoid symptoms; detoxification; antioxidation; retards cataracts; Parkinson's disease; schizophrenia; gallbladder problems resulting from use of contraceptive oestrogen; poor skin tone; hair loss; anaemia; retarded protein synthesis; atherosclerosis; herpes; memory; premature ejaculation.

### **A14 Ornithine**

Stimulates growth hormone production by pituitary gland; increases metabolism of fat and enhances transportation of amino acids to cells; ammonia detoxification in urea cycle; enhances wound healing; stimulates immune system; may be useful in auto immune diseases; memory.

### **A15 Phenylalanine**

Precursor of tyrosine and therefore dopamine, norepinephrine (noradrenaline) and epinephrine (adrenaline), so affects heart rate, blood pressure, oxygen consumption, blood sugar levels, fat metabolism; important for brain; necessary for thyroid; shortage predisposes children to eczema; weight control; antidepressant; pain killer; MS; Parkinson's disease; memory; concentration and mental alertness; rheumatoid arthritis; vitiligo; emotional disorders; circulatory problems; drug addiction; tremors.

### **A16 Taurine**

Interacts with bile salts to maintain their solubility and cholesterol; helps conserve potassium and calcium in the heart muscle; influences insulin and blood sugar levels; increase needed under stress; helpful in some types of epilepsy; gallbladder disease; eye problems; atherosclerosis; angina; circulation; tremors; compromised immune function; claimed to enhance IQ in Downs syndrome children.

### **A17 Threonine**

Necessary for formation of teeth enamel protein, elastin and collagen; minor role controlling fat build up in liver; precursor of glycine and serine; immune stimulating as promotes thymus growth and activity; digestive and intestinal tract functioning; indigestion; malabsorption; irritability; personality disorders.

### **A18 Tryptophan**

Synthesis of B3; precursor of serotonin; mood stabiliser; vascular migraine, anti depressant; weight control; sleep enhancer; menopausal depression; pain killer; restless leg syndrome; rheumatoid arthritis; tardive dyskinesia; mental disturbances, depression, brittle finger nails; poor skin colouring and tone; indigestion; carbohydrate craving. May aggravate bronchial asthma and lupus.

### **A19 Tyrosine**

Derived from phenylalanine; precursor of thyroid hormones, dopa, dopamine, norepinephrine and epinephrine; aids normal brain function; Parkinson's disease; depression; increasing brain neurotransmitter levels; alleviating hay fever and grass allergies; drug addiction; tremors; low blood pressure.

### **A20 Valine**

Helpful in treating addictions; deficiency may affect myelin covering of nerves; energy; muscle building and coordination; liver and gallbladder disease; mental function; nervousness; poor sleep patterns; excess gives skin crawling sensations and hallucinations.

### **A21 Lamberts Protein Deficiency Formula**

Contains alanine, arginine, aspartic acid, cysteine, cytrulline, glutamic acid, glutamine, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, serine, threonine, tyrosine, taurine, valine.



# Anaesthetic & Pain Test Kit

## 48 vials

*Drugs used in anaesthesia (local, general, epidural) and also sometimes for pain including Codeine, Bupivacaine, Diamorphine, Diazepam, Fentanyl, Levobupivacaine, Ketamine and Procaine.*

### AN1 **Alfentanil**

Used for anaesthesia in surgery

Other Names: Alfentanil

General Anaesthetic

### AN2 **Amethocaine**

Mainly used topically in ophthalmology and as an antipruritic, also used in spinal anaesthesia.

Other Names: Tetracaine, Pontocaine, Dicaïne

Local Anaesthetic

### AN3 **Bupivacaine**

Often is administered by epidural injection before total hip arthroplasty. Injected into surgical wound sites to reduce pain for up to 20 hours after the surgery.

Other Names: Marcain, Marcaine, Sensorcaine, Vivacaine

Local and Epidural Anaesthetic

### AN4 **Buprenorphine**

For pain relief.

Other Names: Subutex, Suboxone, Temgesic, Buprenex, Norspan and Butrans

Pain Relief

### AN5 **Butorphanol**

For balanced general anaesthesia, and management of pain during labour. Management of migraine using intranasal spray.

General Anaesthetic and other uses.

### AN6 **Chloroprocaine**

Given by injection during surgical procedures and labour and delivery.

Other Names: Nesacaine, Nesacaine-MPF

Local Anaesthetic

### AN7 **Citanest with Octapressin**

Used in dentistry.

Local Anaesthetic

### AN 8 **Clonidine**

Treatment of some types of neuropathic pain, opioid detoxification, insomnia, menopausal symptoms, anxiety, panic disorder and ADHD. Also used as a veterinary anaesthetic drug.

Pain Relief

### AN9 **Cocaine**

Mainly used for nasal and lacrimal duct surgery.

Local Anaesthetic

### AN10 **Codeine / 3-Methylmorphine**

Used to treat mild to moderate pain and to relieve coughing.

Pain Relief

### AN11 **Desflurane**

Determined to be damaging to the kidneys and liver in 1973, so usage stopped except for in Australia where still used as an emergency analgesic, and for brief painful procedures such as changing of wound dressings or for transport of injured people.

General Inhaled Anaesthetic

### AN12 **Dexmedetomidine**

Used for sedation of critically ill or injured patients in an intensive care unit setting. Also sedation before surgery for short-term procedures.

Other Names: Precedex

### AN13 **Diamorphine / Heroin / Diacetylmorphine**

Typically used to treat severe pain, such as that resulting from a heart attack.

Pain Relief

### AN14 **Diazepam**

Used before certain medical procedures (such as endoscopies) to reduce tension and anxiety, and in some surgical procedures to induce amnesia.

Used for treating anxiety, insomnia, seizures, muscle spasms, alcohol and benzodiazepine withdrawal, etc.

Other Names: Valium, Antenex

General Intravenous Anaesthetic

### AN15 **Dibucaine**

Used in a cream to treat signs of hemorrhoids or rectal irritation and to ease the pain caused by sunburn and skin irritation.

Other Names: Cinchocaine, Cincaïn, Nupercainal, Nupercaine, Sovcaine

Local Anaesthetic

### AN16 **Enflurane**

Commonly used during the 1970s and 1980s.

General Inhaled Anaesthetic

### AN17 **Etomidate**

A short acting anaesthetic used for the induction of general anaesthesia and for sedation for short procedures.

Other Names: Amidate

General Intravenous Anaesthetic

### AN18 **Fentanyl**

Has been used to treat breakthrough pain and is commonly used in pre-procedures as a pain reliever as well as an anaesthetic in combination with a benzodiazepine.

Other Names: Sublimaze, Actiq, Durogesic, Dura-

gesic, Fentora, Onsolis, Instanyl, Abstral, Lazanda  
General Intravenous Anaesthetic

#### AN19 **Halothane**

A core medicine in the World Health Organization's "Essential Drugs List, although its use in developed countries has been almost entirely superseded by newer anaesthetics. General Inhaled Anaesthetic

#### AN20 **Hydromorphone /Dihydromorphine**

Used to relieve moderate to severe pain and severe, painful dry coughing

Other Names: Hydral, Dimorphone, Sophidone LP, Dilaudid, Hydrostat, Hydromorfan, Hydromorphan, Hymorphan, Laudicon, Hymorphan, Opidol, Palladone

Injections, tablets, syrup, suppositories

#### AN21 **Isoflurane**

Use in human medicine is now starting to decline, but still frequently used for veterinary anaesthesia. General Inhaled Anaesthetic

#### AN22 **Ketamine**

Used for the induction and maintenance of general anaesthesia, usually in combination with a sedative.

Other Names: Ketanest, Ketaset, Ketalar General Intravenous Anaesthetic

#### AN23 **Levobupivacaine**

Used for nerve blocks, ophthalmic, epidural and intrathecal anaesthesia in adults; and local analgesia in children.

Other Names: Chirocaine  
Local Anaesthetic

#### AN24 **Levorphanol**

Used to treat severe pain

Other Names: Levo-Dromoran

#### AN25 **Lidocaine**

Used as a dental anaesthetic or as a local anaesthetic for minor surgery. Often combined with Prilocaine as a preparation for dermal anaesthesia.

Other Names: Xylocaine, Lignocaine  
Local and Epidural Anaesthetic

#### AN26 **Lignospan with Adrenalin**

Used in dentistry.

Local Anaesthetic

#### AN27 **Lorazepam**

Used as premedication and for the short-term treatment of anxiety, insomnia, acute seizures including status epilepticus and sedation of hospitalised patients, as well as sedation of aggressive patients.

Other Names: Ativan, Temesta  
General Intravenous Anaesthetic

#### AN28 **Mepivacaine**

Used in dentistry.

Other Names: Carbocaine, Polocaine  
Local Anaesthetic

#### AN29 **Methohexital**

Has been commonly used to induce deep sedation, "twilight sleep" or general anaesthesia for oral surgery and dentistry. It is also used to induce anaesthesia prior to ECT (electroconvulsive therapy).

Other Names: Brevital

General Intravenous Anaesthetic

#### AN30 **Methoxyflurane**

Used from 1960 until around 1974.

Other Names: Penthrane

General Inhaled Anaesthetic

#### AN31 **Midazolam**

Used as a premedication. And also for treatment of acute seizures, moderate to severe insomnia, and for inducing sedation and amnesia before medical procedures.

Other Names: Dormicum, Hypnovel, Versed

General Intravenous Anaesthetic

#### AN32 **Morphine**

Used to relieve severe or agonizing pain and suffering.

Other Names: MS Contin, MSIR, Avinza, Kadian, Oramorph, Roxanol, Kapanol

Can be used as epidural

#### AN33 **Nalbuphine**

For the relief of moderate to severe pain. It can also be used as a supplement to balanced anaesthesia, for preoperative and postoperative analgesia, and for obstetrical analgesia during labour and delivery.

Other Names: Nubain

#### AN34 **Nitrous Oxide**

Used in surgery and dentistry.

Other Names: Laughing Gas, Sweet Air

General Inhaled Anaesthetic

#### AN35 **Oxycodone**

Effective for managing moderate to moderately severe acute or chronic pain

Pain Relief

#### AN36 **Oxymorphone**

A preoperative medication to alleviate apprehension, maintain anaesthesia, and as an obstetric analgesic

Other Names: Opana, Numorphan, Numorphone

#### AN37 **Pentazocine**

Used to treat moderate to moderately severe pain

Other Names: Fortral, Talwin NX

**AN38 Pethidine / Meperidine**

Used for the treatment of moderate to severe pain.

Other Names: Demerol, isonipecaïne, lidol, pethanol, piridosal, Algil, Alodan, Centralgin, Dispadol, Dolantin, Mialgin, Petidin Dolargan, Dolestine, Dolosal, Dolsin, Mefedina

In tablets, as a syrup, or by intramuscular or intravenous injection.

**AN39 Prilocaine**

Used in dentistry. Also often combined with Lidocaine as a preparation for dermal anaesthesia.

Other Names: Citanest

Local Anaesthetic

**AN40 Procaine**

Used primarily to reduce the pain of intramuscular injection of penicillin; used to be used in dentistry.

Other Names: Novocain, Novocain

Local Anaesthetic

**AN41 Propofol**

Uses include the induction and maintenance of general anaesthesia, sedation for mechanically ventilated adults, and procedural sedation. Commonly used in veterinary medicine.

Other Names: Diprivan

General Intravenous Anaesthetic

**AN42 Remifentanil**

Given to patients during surgery to relieve pain and as an adjunct to an anaesthetic.

Other Names: Ultiva

General Intravenous Anaesthetic

**AN43 Ropivacaine**

Used for nerve block, epidural and intrathecal anaesthesia in adults and children over 12 years. It is also indicated for peripheral nerve block and caudal epidural in children 1–12 years for surgical pain.

Other Names: Naropin

Local and Epidural Anaesthetic

**AN44 Scandonest 3% plain**

Used in dentistry.

Local Anaesthetic

**AN45 Sevoflurane**

Used for induction and maintenance of general anaesthesia.

Other Names: Fluoromethyl Hexafluoroisopropyl Ether

General Inhaled Anaesthetic

**AN46 Sufentanil**

Used when pain relief is required for a short period of time. May also be used with other compounds in general anaesthesia.

Other Names: R-30730, Sufenta

General Intravenous Anaesthetic

**AN47 Thiopental**

Rapid-onset short-acting barbiturate general anaesthetic. A core medicine in the World Health Organization's "Essential Drugs List", which is a list of minimum medical needs for a basic health-care system.

Other Names: Sodium Pentothal, Thiopentone Sodium, Trapanal

General Intravenous Anaesthetic

**AN48 Xenon**

Although it is expensive, anaesthesia machines that can deliver xenon are about to appear on the European market, because advances in recovery and recycling of xenon have made it economically viable, although rarely used.

General Inhaled Anaesthetic

# Animals: Canine Test Kit

## 60 vials

*A range of vials specifically related to dogs, including healthy tissues, diseases, tumours, parasites, vaccinations and others.*

**AC 01 Bladder** Healthy Tissue

**AC 02 Cardiac Muscle** Healthy Tissue

**AC 03 Duodenum** Healthy Tissue

**AC 04 Ileum** Healthy Tissue

**AC 05 Kidney** Healthy Tissue

**AC 06 Liver** Healthy Tissue

**AC 07 Lymph Node** Healthy Tissue

**AC 08 Oesophagus/Esophagus** Healthy Tissue

**AC 09 Pyloric stomach** Healthy Tissue

**AC 10 Basal Cell Carcinoma** Tumour

Develop at the outer layer of skin; fairly common, especially in middle-aged and older animals; usually benign, but occasionally malignant.

**AC 11 Histiocytoma** Tumour

A benign skin tumour that originates in the Langerhans cells, immune cells that function to provide protective immunity to the tissues that are in contact with the outer environment -- the nose, stomach, intestines and lungs, but mainly the skin's surface.

**AC 12 Mammary Cancer** Tumour

**AC 13 Keratoacanthoma** Tumour

Benign tumour of the hair follicle.

**AC 14 Mast Cell Tumour** Tumour

Tumour on or under the skin. Boxers, bulldogs, pugs, and Boston terriers appear to be more susceptible than other breeds.

**AC 15 Melanoma** Tumour

Can be either malignant or benign; common sites are mouth or toes. Male dogs and some breeds (Scottish terriers, Cocker Spaniels, Gordon Setters, Chow Chows, and Golden retrievers) appear to be more susceptible.

**AC 16 Osteocarsoma** Tumour

The most common bone tumour found in dogs. Bone cancer can affect any breed of dog, but it is more commonly found in the larger breeds.

**AC 17 Sebaceous Adenoma** Tumour

Benign tumour of the skin.

**AC 18 Squamous Cell Carcinoma** Tumour

Malignant skin cancer.

**AC 19 Distemper / Hardpad** Nosode

Affects the gastrointestinal, respiratory, and central nervous systems; can cause an abnormal enlargement or thickening of the pads of an animal's feet.

**AC 20 Hepatitis, Canine** Nosode

An acute liver infection in dogs caused by canine adenovirus type-1 (CAV-1); spread in the faeces, urine, blood, saliva, and nasal discharge of infected dogs.

**AC 21 Kennel Cough / Infectious Tracheobronchitis** Nosode

Respiratory infection caused by Bordetella bronchiseptica and canine parainfluenza virus. These pathogens attack the cilia lining the respiratory tract and cause inflammation of the upper airway.

**AC 22 Kennel Cough, Distemper, Leptospirosis, Parvovirus Infection, Hardpad and Hepatitis** Nosode

**AC 23 Ringworm** Nosode

- AC 24 Canine Parvovirus Type 2 / CPV2** Virus  
A highly contagious virus that causes acute gastroenteritis.
- AC 25 Microsporum Canis** Fungus  
Common cause of ringworm; 20% of ringworm cases in the USA are due to this organism.
- AC 26 Microsporum Gypseum** Fungus  
Very common cause of ringworm; 70% of ringworm cases in the USA are due to this organism.
- AC 27 Trichophyton mentagrophytes** Fungus  
Causes ringworm; 10% of ringworm cases in the USA are due to this organism.
- AC 28 DHLPPi Vaccination** Vaccination  
Against Canine Distemper, Hepatitis, Leptospirosis, Parvovirus and Parainfluenza.
- AC 29 DHPPi Vaccination** Vaccination  
Against Canine Distemper, Hepatitis, Parvovirus and Parainfluenza.
- AC 30 Leptospirosis Vaccination** Vaccination  
Leptospirosis is caused by a bacteria spread through soil, water, and the urine of infected animals, and if not caught early it can be deadly.
- AC 31 Kennel Cough Vaccination** Vaccination
- AC 32 Lyme Disease Vaccination** Vaccination
- AC 33 Parvovirus Vaccination** Vaccination
- AC 34 Rabies Vaccination** Vaccination
- AC 35 Ancylostoma Caninum / Hookworm, Adult** Parasite  
One of the most common intestinal parasites; found in warm and temperate climates. Can cause severe disease including anaemia and serious diarrhoea; growth in young animals is stunted, and the hair coat may appear dull and dry. In severe infestations, animals may cough or develop pneumonia.
- AC 36 Angiostrongylus Vasorum / Dog Lungworm / French Heartworm** Parasite  
Usually causes progressively worsening signs of cardiac and respiratory disease, as well as causing haemorrhages in lungs, liver, intestine, eyes and spinal cord; if left untreated, it can be fatal in severe cases.
- AC 37 Babesia Canis** Parasite  
Fever, weakness, lethargy, pale gums and tongue, red or orange urine, jaundice, enlarged lymph nodes and enlarged spleen.
- AC 38 Babesia Gibsoni** Parasite  
Fever, weakness, lethargy, pale gums and tongue, red or orange urine, jaundice, enlarged lymph nodes and enlarged spleen.
- AC 39 Babesia Vulpes / Babesia Microti / Theileria Microti** Parasite  
Anemia as the immune system destroys infected red blood cells, but Babesia can have other effects throughout the body as well. Found in North America and Europe.
- AC 40 Clonorchis Sinensis** Parasite  
Clinical signs in dogs are usually absent, but migration of immature flukes can cause acute hepatitis and pancreatitis. Mainly S E Asia.
- AC 41 Cryptosporidium Parvum** Parasite  
Causes fever and diarrhoea; dogs may also display intolerance for food, exhibit lethargy, intolerance for exercise and weakness.
- AC 42 Ctenocephalides Canis / Dog Flea** Parasite  
Causes fever and diarrhoea; dogs may also display intolerance for food, exhibit lethargy, intolerance for exercise and weakness. Found worldwide.
- AC 43 Demodex Canis / Dog Mange Mite** Parasite  
Microscopic normal inhabitants of dog skin; usually not a problem, but sometimes leads to the skin condition mange or demodicosis.
- AC 44 Dipylidium Caninum / Tapeworm, Eggs, Immature and Mature Proglottid** Parasite  
Most common tapeworm in dogs; in puppies heavy tapeworm infestation can cause lack of growth, anaemia and occasionally intestinal blockages; dogs may scoot anus across the ground because of the irritation.
- AC 45 Dirofilaria Immitis / Dog Heartworm** Parasite  
Causes damage to heart and lungs, usually as a result of a bite from an infected mosquito.

**AC 46 Echinococcus Granulosus / Hydatid Worm / Hyper Tape-Worm / Dog Tapeworm** Parasite  
Symptoms include itching / licking around the anus, weight loss, lethargy and painful abdomen; distributed world-wide. It is especially prevalent in parts of Eurasia, north and east Africa, Australia, and South America.

**AC 47 Echinococcus Multilocularis / Tapeworm** Parasite  
Mostly without clinical signs, unless in case of very heavy infections, which are unusual.

**AC 48 Giardia Lamblia, Cysts and Trophozoites** Parasite  
Causes diarrhoea, although majority of dogs are symptom-free.

**AC 49 Heterodoxus Spiniger / Dog Chewing Louse** Parasite  
Female lice attach their eggs (nits) to the hairs of the host dog; once hatched the nymphs, bite and feed on blood. Lice can also feed on dead skin and hair. This feeding activity affects the dog by causing hair loss, reduced skin integrity and itching.

**AC 50 Isospora Spp./Cystoisospora Spp., Oocysts and Adult** Parasite  
infect the intestines in dogs and can cause disease (intestinal or enteric coccidiosis); can cause bloody or watery diarrhea, weight loss, dehydration, and, in more serious cases, anorexia, vomiting, and depression. In severe cases, intestinal coccidiosis can be fatal.

**AC 51 Leishmania Donovanii** Parasite  
Symptoms may include sores, loss of weight, bald patches, conjunctivitis, , nasal discharge, muscular atrophy, inflammation, swelling, and organ failure, including mild heart attacks.

**AC 52 Otodectes Cynotis / Ear Mite** Parasite  
Tiny parasite that lives out their life cycle mostly inside the ear canal. They are quite common and can cause severe irritation and itchiness of the ears.

**AC 53 Sarcoptes Scabiei** Parasite  
A highly contagious mite infestation, causing intense itching.

**AC 54 Strongyloides Stercoralis** Parasite  
Symptoms include rash, cough, diarrhoea, blood and mucous in stools.

**AC 55 Taenia Psiformis / Tapeworm** Parasite  
Normally no clinical signs seen for low to moderate infections; in highly infected cases the dog will experience blockage in the intestines.

**AC 56 Toxascaris Leonina, Egg and Larvae** Parasite  
A common parasitic roundworm; may show no symptoms; may have diarrhoea, vomiting, loss of appetite, experience thinning, dull coats, and in puppies, can develop distended abdomens.

**AC 57 Toxocara Canis / Dog Roundworm, Cysts and Trophozoites** Parasite  
Can be fatal in puppies, but adult dogs are usually symptom-free.

**AC 58 Trichodectes Cani / Dog Biting Louse / Canine Chewing Louse** Parasite  
Found throughout the world; often asymptomatic, but can be very irritating in heavy infestations; may be a carrier of dog tapeworm.

**AC 59 Trichuris Trichiura** Parasite  
May be symptom free; weight loss, diarrhoea, mucous or blood in the stools and anaemia.

**AC 60 Trichuris Vulpis / Whipworm, Eggs** Parasite  
Eggs hatch in small intestine, and dog asymptomatic; in adult form causes bloody diarrhoea, weight loss, dehydration, and anaemia.



# Animals: Equine Test Kit

## 30 Vials

*Healthy and diseased tissues, virus, vaccinations and parasites.*

AE 01	Kidney	Healthy Tissue	
AE 02	Testicle	Healthy Tissue	
AE 03	Uterus	Healthy Tissue	
AE 04	Equine Melanoma	Tumour	The third most common type of skin cancer in horses.
AE 05	Equine Sarcoid	Tumour	the most common skin tumour in horses and ponies and, although they may look like warts, they are locally destructive and are therefore considered by many vets as a form of skin cancer.
AE 06	Equine Herpes	Nosode	Highly contagious.
AE 07	Equine Toxoplasma	Nosode	Usually occurs without symptoms.
AE 08	Glanders/Farcy	Nosode	Caused by infection with the bacterium <i>Burkholderia mallei</i> ; symptoms include nodular lesions in the lungs and ulceration of the mucous membranes in the upper respiratory tract. The acute form results in coughing, fever, and the release of an infectious nasal discharge, followed by septicaemia and death within days. In the chronic form, nasal and subcutaneous nodules develop, eventually ulcerating. Death can occur within months, while survivors act as carriers.
AE 09	Grease / Dermatitis Verrucosa / Seborrheic Dermatitis / Mud Fever	Nosode	Dermatitis of the heel that occurs in spring and autumn.
AE 10	Equine Streptococcus	Bacteria	Causes Strangles, upper respiratory tract inflammation, a muco-purulent nasal discharge, and inflammation of the regional lymph nodes, followed by abscesses; highly contagious, and horses can be carriers and shed the infection, although they themselves may show no outward clinical signs.
AE 11	Equine Herpesvirus 1	Virus	Causes rhinopneumonitis; the most important viral cause of respiratory infection in foals; causes a lifelong latent infection in affected animals.
AE 12	Equine Herpesvirus 4	Virus	Causes rhinopneumonitis; the most important viral cause of respiratory infection in foals; causes a lifelong latent infection in affected animals.
AE 13	Equine Papilloma Virus	Virus	Causes warts.
AE 14	Equine Ehrliche Risticii Vacc	Vaccination	Vaccine against Potomac Horse Fever.
AE 15	Equine Encephalo-Myelitis & Tetanus Vaccination	Vaccination	Equine Encephalomyelitis (Eastern, Western, Venezuelan, killed virus) & Tetanus Vaccine
AE 16	Equine Flu & Tetanus Vacc	Vaccination	ProteqFlu
AE 17	Equine Influenza (A1/A2) Vacc	Vaccination	Vaccine made from killed A1 and A2 strains of the equine influenza virus

AE 18	Equine Rhino-Pneumonitis	Vaccination	Herpes 1/4"EquiVac EHV-1/4") Equine Rhinopneumonitis vaccine made from killed strains of type 1 and type 4 viruses.
AE 19	West Nile Equine Vaccination	Vaccination	
AE 20	Anoplocephala Magna	Parasite	Tapeworm; In light infections, no signs of disease are present; in heavy infections, GI disturbances may be seen. Failure to thrive and anaemia may also occur.
AE 21	Anoplocephala Perfoliata	Parasite	Tapeworm; In light infections, no signs of disease are present; in heavy infections, GI disturbances may be seen. Failure to thrive and anaemia may also occur.
AE 22	Cyathostome Spp.	Parasite	May cause lethargy, sudden weight loss, debilitation, and diarrhoea.
AE 23	Draschia Spp.	Parasite	Produces tumour-like enlargements filled with necrotic material and a large number of worms; the enlargements are covered by intact epithelium, except for a small opening through which the eggs pass. Rarely, these nodules rupture and cause fatal peritonitis.
AE 24	Habronema Spp.	Parasite	Produces tumour-like enlargements filled with necrotic material and a large number of worms; the enlargements are covered by intact epithelium, except for a small opening through which the eggs pass. Rarely, these nodules rupture and cause fatal peritonitis.
AE 25	Oxyuris Equi	Parasite	Chronically infected horses have a very poor appearance and may cause severe irritability and itching. Severe cases can lead to nervousness and anorexia. Rubbing and scratching at the perianal region cause irritation, dull hair coat, and loss of hair.
AE 26	Strongylus Edentatus	Parasite	In mild cases can cause diarrhoea, weakness and anaemia if there is significant blood loss, and abdominal discomfort; in severe cases can show signs of having severe colic, rupture of the intestines, and death.
AE 27	Strongylus Equinus	Parasite	In mild cases can cause diarrhoea, weakness and anaemia if there is significant blood loss, and abdominal discomfort; in severe cases can show signs of having severe colic, rupture of the intestines, and death.
AE 28	Strongylus Vulgaris	Parasite	Common parasite; in mild cases can cause diarrhoea, weakness and anaemia if there is significant blood loss, and abdominal discomfort; in severe cases can show signs of having severe colic, rupture of the intestines, and death.
AE 29	Trichostrongylus	Parasite	Produce a chronic catarrhal gastritis, which may result in weight loss.
AE 30	Tridontophorus	Parasite	May cause ulceration of the colon.

# Animals: Feline Test Kit ONE

## 85 Vials

*Histology and pathology specifically related to domestic cats.*

*Please note these tissues come from cats, not other animals or humans.*

*Also available is Feline Kit 2 - see following pages*

AF1 01	Adrenal Gland	Healthy Tissue	
AF1 02	Artery & Vein, Small	Healthy Tissue	
AF1 03	Bladder	Healthy Tissue	
AF1 04	Cardiac Muscle	Healthy Tissue	An involuntary, striated muscle that is found in the walls of the heart.
AF1 05	Cardio-Oesophageal Junction	Healthy Tissue	The abrupt transition from oesophageal mucosa to that of the cardiac portion of stomach, demarcated internally in the living by the z-line, and approximated externally by the cardiac notch.
AF1 06	Cerebellum	Healthy Tissue	Involved in physical coordination, balance and posture.
AF1 07	Cerebral Cortex	Healthy Tissue	Plays a key role in memory, attention, perception, cognition, awareness and thought.
AF1 08	Corneo-Sclerotic Junction	Healthy Tissue	Junction between cornea and sclera.
AF1 09	Diaphragm, Striated Muscle	Healthy Tissue	
AF1 10	Duodenum	Healthy Tissue	First section of small intestine.
AF1 11	Epididymis	Healthy Tissue	A tube located at the back of the testicles that stores and carries sperm.
AF1 12	Fundic Gland	Healthy Tissue	Found in the fundus and body of the stomach. They are simple almost straight tubes, two or more of which open into a single duct. Oxyntic means acid-secreting and they secrete hydrochloric acid (HCl) and intrinsic factor.
AF1 13	Gall Bladder	Healthy Tissue	
AF1 14	Ganglion, Autonomic	Healthy Tissue	A cluster of nerve cell bodies (a ganglion) in the autonomic nervous system.
AF1 15	Ganglion, Spinal	Healthy Tissue	
AF1 16	Head, Foetal	Healthy Tissue	
AF1 17	Ileum	Healthy Tissue	Third portion of small intestine.
AF1 18	Intestine, Columnar Epithelium	Healthy Tissue	These cells secrete mucous for lubrication.
AF1 19	Intestine, Involuntary Muscle	Healthy Tissue	Muscles that relax and contract to move food down the intestine.
AF1 20	Jaw, Kitten	Healthy Tissue	
AF1 21	Jejunum	Healthy Tissue	Second part of small intestine.
AF1 22	Kidney	Healthy Tissue	
AF1 23	Large Intestine	Healthy Tissue	
AF1 24	Lip, Tactile Papillae	Healthy Tissue	Nerve endings in lips giving a sense of touch.
AF1 25	Liver	Healthy Tissue	
AF1 26	Liver and Bile Capillaries	Healthy Tissue	
AF1 27	Lung	Healthy Tissue	
AF1 28	Lung, Foetal	Healthy Tissue	
AF1 29	Lymph Gland	Healthy Tissue	

AF1 30	Lymph Gland, Reticular Cells	Healthy Tissue	The reticular cell network distributes key molecules and provides a structure for immune cells to move around on. (During infections, the network can suffer damage.)
AF1 31	Mammary Gland, Active	Healthy Tissue	Lactating breast.
AF1 32	Medulla Oblongata	Healthy Tissue	Located in the brainstem; responsible for autonomic (involuntary) functions ranging from vomiting to sneezing.
AF1 33	Mesentery	Healthy Tissue	A fold of the peritoneum which attaches the stomach, small intestine, pancreas, spleen, and other organs to the posterior wall of the abdomen.
AF1 34	Muscle, Skeletal	Healthy Tissue	
AF1 35	Nerve	Healthy Tissue	
AF1 36	Oesophagus / Esophagus	Healthy Tissue	Also known as food pipe or gullet.
AF1 37	Olfactory Epithelium, Kitten	Healthy Tissue	A specialised epithelial tissue inside the nasal cavity that is involved in smell.
AF1 38	Olfactory Mucosa	Healthy Tissue	Located in the upper region of the nasal cavity and is made up of the olfactory epithelium and the underlying lamina propria, connective tissue containing fibroblasts, blood vessels, Bowman's glands and bundles of fine axons from the olfactory neurons.
AF1 39	Optic Nerve	Healthy Tissue	
AF1 40	Ovary	Healthy Tissue	
AF1 41	Pancreas	Healthy Tissue	
AF1 42	Pancreas, Kitten	Healthy Tissue	
AF1 43	Pancreas, Pacinian / Lamellar Corpuscle, Nerve Endings	Healthy Tissue	Pancian corpuscle cells detect vibration and possibly very low frequency sounds.
AF1 44	Parathyroid	Healthy Tissue	Four small glands in the neck that control the body's calcium levels.
AF1 45	Parotid Gland / Salivary Gland	Healthy Tissue	Makes saliva.
AF1 46	Pars Optica Retinae	Healthy Tissue	The posterior part of the retina with its specialised neurons (rods and cones, bipolar and ganglion cells) and supporting cells.
AF1 47	Pituitary	Healthy Tissue	
AF1 48	Prostate	Healthy Tissue	
AF1 49	Pyloro-Duodenal Junction	Healthy Tissue	The opening from the stomach into the duodenum.
AF1 50	Pylorus	Healthy Tissue	The fufthest part of the stomach that connects to the duodenum.
AF1 51	Rectum, Unstriated Muscle	Healthy Tissue	Muscles in the rectum that contract without conscious control.
AF1 52	Sciatic Nerve	Healthy Tissue	Begins in the lower back and runs through the buttock and down the rear leg; provides the connection to the nervous system for nearly the whole of the skin of the leg, the muscles of the back of the thigh, and those of the leg and paw.
AF1 53	Small Intestine	Healthy Tissue	
AF1 54	Small Intestine, Kitten	Healthy Tissue	
AF1 55	Soft Palate	Healthy Tissue	The fleshy, flexible part towards the back of the roof of the mouth.
AF1 56	Spinal Chord, Cervical	Healthy Tissue	
AF1 57	Spinal Chord, Lumbar	Healthy Tissue	

AF1 58	Spinal Chord, Sacral	Healthy Tissue	
AF1 59	Spinal Chord, Thoracic	Healthy Tissue	
AF1 60	Spinal Ganglion / Dorsal Root Ganglion / Posterior Root Ganglion	Healthy Tissue	A cluster of nerve cell bodies in a dorsal root of a spinal nerve.
AF1 61	Spleen	Healthy Tissue	
AF1 62	Stomach	Healthy Tissue	
AF1 63	Stomach, Cardia	Healthy Tissue	First part of the stomach.
AF1 64	Sublingual Gland	Healthy Tissue	Major salivary glands.
AF1 65	Submaxillary Gland	Healthy Tissue	A salivary gland inside the lower jaw on either side that produces most of the nocturnal saliva; discharges saliva into the mouth under the tongue.
AF1 66	Testis	Healthy Tissue	
AF1 67	Thymus, Kitten	Healthy Tissue	
AF1 68	Tongue	Healthy Tissue	
AF1 69	Tooth in Jaw	Healthy Tissue	
AF1 70	Tooth, Developing, Kitten	Healthy Tissue	
AF1 71	Trachea	Healthy Tissue	Wind pipe.
AF1 72	Trachea & Thyroid	Healthy Tissue	
AF1 73	Trachea, Hyaline Cartilage	Healthy Tissue	Hyaline cartilage provides support and flexibility.
AF1 74	Ureter	Healthy Tissue	The duct by which urine passes from the kidney to the bladder.
AF1 75	Urethra and Penis	Healthy Tissue	
AF1 76	Uterus and Placenta	Healthy Tissue	
AF1 77	Vas Deferens	Healthy Tissue	The duct which conveys sperm from the testicle to the urethra.
AF1 78	Vein, Large	Healthy Tissue	
AF1 79	Feline Gingivitis	Nosode	Inflammation of the gums and tooth problems in cats. The most commonly known causes of feline gingivitis are feline immunodeficiency virus and feline leukemia.
AF1 80	Feline Infectious Enteritis / FIE	Nosode	A disease caused by infection with feline parvovirus (FPV), also known as feline panleukopenia virus.
AF1 81	Feline Infectious Peritonitis	Nosode	An uncommon, but usually fatal, aberrant immune response to infection with feline coronavirus.
AF1 82	Feline Influenza/ Upper Respiratory Infection	Nosode	A very common disease that can vary considerably in severity, and on occasions can even be life-threatening.
AF1 83	Feline Leukaemia	Nosode	Symptoms include loss of appetite, poor coat condition, uneven pupils, infections of the skin, bladder, and respiratory tract, oral disease, seizures, swollen lymph nodes, skin lesions, fatigue, fever, weight loss, gingivitis, recurring bacterial and viral illnesses, anaemia, diarrhoea and jaundice. Can be transmitted from infected cats via saliva or nasal secretions.
AF1 84	Feline Nosode Combination	Nosode	Feline Enteritis, Rhinotracheitis, Leukaemia, Flu and Aids Nosodes
AF1 85	Feline Rhinotracheitis	Nosode	Herpesvirus disease of cats, characterised by sneezing, inflammation of the nasal passages, fever, and eye infection; inflammation of the wind-pipe or trachea sometimes occurs.

# Animals: Feline Test Kit TWO

## 33 Vials

*Vaccines, parasites etc. specific to cats.*

*Please note these tissues come from cats, not other animals or humans.*

AF2 01	Feline Immunodeficiency Virus	Virus	Compromises the immune system.
AF2 02	Campylobacter Jejuni	Bacteria	Causes problems most often in cats younger than 6 months, shelter cats, or immunocompromised cats. The bacteria can also be found in healthy cats showing no symptoms. Cats may develop severe disease for three to seven days, with diarrhea and decreased appetite.
AF2 03	Clostridium Perfringens	Bacteria	Causes diarrhoea.
AF2 04	Microsporum Canis	Fungus	Common cause of ringworm in cats as well as dogs.
AF2 05	Microsporum Gypseum	Fungus	Common cause of ringworm in cats.
AF2 06	Trichophyton Mentagrophytes	Fungus	Causes ringworm.
AF2 07	Chlamydia Psittaci / Chlamydomyphila Psittaci	Chlamydia	Causes chlamydiosis, symptoms include signs of an upper respiratory infection, such as watery eyes, runny nose, and sneezing.
AF2 08	Feline Leukaemia / FeLV	Vaccination	PUREVAX® FeLV/RCP Vaccine
AF2 09	Feline Leukaemia & Rhinotracheitis	Vaccination	PUREVAX® FELV/RCP Vaccine
AF2 10	Feline RCPL	Vaccination	Purevax® RC. Combined vaccine for feline Rhinotracheitis, Feline Calicivirus, Feline Panleucopenia and Feline Leukaemia.
AF2 11	Feline Tricat Vaccine	Vaccination	Combined feline viral rhinotracheitis, calici virus and panleucopenia vaccines.
AF2 12	Ancylostoma Caninum / Hookworm	Parasite	One of the most common intestinal parasites; found in warm and temperate climates. Can cause severe disease including anaemia and serious diarrhoea; growth in young animals is stunted, and the hair coat may appear dull and dry. In severe infestations, animals may cough or develop pneumonia
AF2 13	Ancylostoma Duodenale / Hookworm, Eggs and Adult	Parasite	One of the most common intestinal parasites of cats (especially kittens), and can cause severe disease including anaemia and serious diarrhoea.
AF2 14	Ancylostoma Tubaeformae	Parasite	A hookworm that infects cats worldwide; infection can occur by penetration of the skin, eating other hosts such as birds, or by directly consuming it; causes anaemia and compromises the immune system; causes dermatitis in humans.
AF2 15	Babesia Cati	Parasite	Anorexia and lethargy.
AF2 16	Babesia Felis	Parasite	Anorexia and lethargy.
AF2 17	Ctenocephalides Canis / Dog Flea	Parasite (External)	Dog fleas can also live on cats; can spread Dipylidium caninum.
AF2 18	Ctenocephalides Felis / Cat Flea / Feline Flea	Parasite (External)	Found on cats (and also dogs); can cause flea allergy dermatitis; can cause dehydration if large infestation.



AF2 19	Cryptosporidium Parvum	Parasite	Healthy cats may be symptom free; in immunocompromised or kittens, diarrhoea, loss of appetite, low-grade fever and dehydration can develop.
AF2 20	Dipylidium Caninum / Tapeworm, Eggs, Immature and Mature Proglottid	Parasite	The most common tapeworm of the cat, causes few problems in the adult host but can result in digestive upsets and stunting of growth in kittens.
AF2 21	Dirofilaria Immitis / Dog Heartworm	Parasite	Causes heartworm disease in cats; present in many countries particularly the USA, Canada, and southern Europe.
AF2 22	Felicola Subrostratus / Felicola Subrostrata on ear	Parasite	Louse found in Australia, Europe and North America; found in large numbers only on elderly or sick cats especially if they are long-haired
AF2 23	Isospora Spp./Cystoisospora Spp., Oocysts and Adult	Parasite	Infect the intestines in cats and can cause disease, referred to as intestinal or enteric coccidiosis; can cause bloody or watery diarrhea, weight loss, dehydration, and, in more serious cases, anorexia, vomiting, and depression. In severe cases, intestinal coccidiosis can be fatal.
AF2 24	Otodectes Cynotis / Ear Mite	Parasite (External)	Tiny parasite that lives out their life cycle mostly inside the ear canal. They are quite common and can cause severe irritation and itchiness of the ears.
AF2 25	Physaloptera Spp.	Parasite	Can be asymptomatic, or may have gastric symptoms, particularly vomiting.
AF2 26	Spirometra Erinaceieuropaei	Parasite	Often asymptomatic.
AF2 27	Strongyloides Stercoralis	Parasite	Causes bloody diarrhoea. Found worldwide, especially in warmer regions in South America and southeast Asia.
AF2 28	Taenia Taeniaeformis in liver	Parasite	Parasitic tapeworm; often no symptoms.
AF2 29	Toxascaris Leonina, Egg and Larvae	Parasite	a common parasitic roundworm; may show no symptoms; may have diarrhoea, vomiting, loss of appetite, experience thinning, dull coats, and in kittens, can develop distended abdomens.
AF2 30	Toxocara Cati / Feline Roundworm	Parasite	One of the most common nematodes of cats; in adult cats, the infection – which is called toxocariosis – is usually asymptomatic, but in juvenile cats can be fatal.
AF2 31	Toxoplasma Gondii, Cysts and Trophozites	Parasite, Protozoa	Primary hosts; may be symptom-free or have lethargy, depression, fever, weight loss, etc.
AF2 32	Trichuris Trichiura / Cat Whipworm	Parasite	Diarrhoea, weight loss and dehydration.
AF2 33	Trichuris Vulpis / Cat Whipworm	Parasite	Diarrhoea, weight loss and dehydration.

# Bach Flower Test Kit

## 39 vials

*These ever popular flower remedies in a convenient test kit. This kit is not suitable for dispensing purposes.*

### **BF1 Agrimony**

The jovial, cheerful, humorous people who love peace and are distressed by argument or quarrels, to avoid which they will agree to give up much. Though generally they have troubles and are tormented and restless and worried in mind or in body, they hide their cares behind their humour and jesting and are considered very good friends to know. They often take alcohol or drugs in excess, to stimulate themselves and help themselves bear their trials with cheerfulness.

### **BF2 Aspen**

Vague unknown fears, for which there can be given no explanation, no reason. Yet the patient may be terrified of something terrible going to happen, he knows not what. These vague unexplainable fears may haunt by night or day. Sufferers are often afraid to tell their trouble to others.

### **BF3 Beech**

For those who feel the need to see more good and beauty in all that surrounds them. And, although much appears to be wrong, to have the ability to see the good growing within. So as to be able to be more tolerant, lenient and understanding of the different way each individual and all things are working to their own final perfection.

### **BF4 Centuary**

Kind, quiet, gentle people who are over-anxious to serve others. They overtax their strength in their endeavours. Their wish so grows upon them that they become more servants than willing helpers. Their good nature leads them to do more than their own share of work, and in so doing they may neglect their own particular mission in life.

### **BF5 Cerato**

Those who have not sufficient confidence in themselves to make their own decisions. They constantly seek advice from others, and are often misguided.

### **BF6 Cherry Plum**

Fear of the mind being over-strained, of reason giving way, of doing fearful and dreaded things, not wished and known wrong, yet there comes the thought and impulse to do them.

### **BF7 Chestnut Bud**

For those who do not take full advantage of observation and experience, and who take a longer time than others to learn the lessons of daily life. Whereas one experience would be enough for some, such people find it necessary to have more, sometimes several, before the lesson is learnt. Therefore, to their regret, they find themselves having to make the same error on different occasions when once would have been enough, or observation of others could have spared them even that one fault.

### **BF8 Chicory**

Those who are very mindful of the needs of others they tend to be over-full of care for children, relatives, and friends, always finding something that should be put right. They are continually correcting what they consider wrong, and enjoy doing so. They desire that those for whom they care should be near them.

### **BF9 Clematis**

Those who are dreamy, drowsy, not fully awake, no great interest in life. Quiet people, not really happy in their present circumstances, living more in the future than in the present; living in hopes of happier times, when their ideals may come true. In illness some make little or no effort to get well, and in certain cases may even look forward to death, in the hope of better times; or maybe, meeting again some beloved one whom they have lost.

### **BF10 Crab Apple**

This is the remedy of cleansing. For those who feel as if they had something not quite clean about themselves. Often it is something of apparently little importance: in others there may be more serious disease that is almost disregarded compared to the one thing on which they concentrate. In both types they are anxious to be free from the one particular thing which is greatest in their minds and which seems so essential to them that it should be cured. They become despondent if treatment fails. Being a cleanser, this remedy purifies wounds if the patient has reason to believe that some poison has entered which must be drawn out.

### **BF11 Elm**

Those who are doing good work, are following the calling of their life and who hope to do something of importance, and this often for the benefit of humanity. At times there may be periods of depression when they feel that the task they have undertaken is too difficult, and not within the power of a human being.

**BF12 Gentian**

Those who are easily discouraged. They may be progressing well in illness or in the affairs of their daily life, but any small delay or hindrance to progress causes doubt and soon disheartens them.

**BF13 Gorse**

Very great hopelessness, they have given up belief that more can be done for them. Under persuasion or to please others they may try different treatments, at the same time assuring those around that there is so little hope of relief.

**BF14 Heather**

Those who are always seeking the companionship of anyone who may be available, as they find it necessary to discuss their own affairs with others, no matter whom it may be. They are very unhappy if they have to be alone for any length of time.

**BF15 Holly**

For those who are sometimes attacked by thoughts of such kind as jealousy, envy revenge, suspicion. For the different forms of vexation. Within themselves they may suffer much, often when there is no real cause for their unhappiness.

**BF16 Honeysuckle**

Those who live much in the past, perhaps a time of great happiness, or memories of a lost friend, or ambitions which have not come true. They do not expect further happiness such as they have had.

**BF17 Hornbeam**

For those who feel that they have not sufficient strength, mentally or physically, to carry the burden of life placed upon them; the affairs of every day seem too much for them to accomplish; though they generally succeed in fulfilling their task. For those who believe that some part, of mind or body, needs to be strengthened before they can easily fulfil their work.

**BF18 Impatiens**

Those who are quick in thought and action and who wish all things to be done without hesitation or delay. When ill they are anxious for a hasty recovery. They find it very difficult to be patient with people who are slow, as they consider it wrong and a waste of time. And they will endeavour to make such people quicker in all ways. They often prefer to work and think alone, so that they can do everything at their own speed.

**BF19 Larch**

For those who do not consider themselves as good or capable as those around them, who expect failure, who feel that they will never be a success, and so do not venture or make a strong enough attempt to succeed.

**BF20 Mimulus**

Fear of worldly things, illness, pain, accidents, poverty, of dark, of being alone, of misfortune. The fears of everyday life. These people quietly and secretly bear their dread; they do not freely speak of it to others.

**BF21 Mustard**

Those who are liable to times of gloom, or even despair, as though a cold dark cloud overshadowed them and hid the light and the joy of life. It may not be possible to give any reason or explanation for such attacks. Under these conditions it is almost impossible to appear happy or cheerful.

**BF22 Oak**

For those who are struggling and fighting strongly to get well, or in connection with the affairs of their daily life. They will go on trying one thing after another, though their case may seem hopeless.

**BF23 Olive**

Those who have suffered much mentally or physically and so exhausted and weary that they feel they have no more strength to make any effort. Daily life is hard work for them, without pleasure.

**BF24 Pine**

For those who blame themselves. Even when successful they think they could have done better, and are never content with their efforts or the results. They are hard-working and suffer much from the faults they attach to themselves. Sometimes if there is any mistake it is due to another, but they will claim responsibility even for that.

**BF25 Red Chestnut**

For those who find it difficult not to be anxious for other people. Often they have ceased to worry about themselves, but Rock Rose for those of whom they are fond they may suffer much, frequently anticipating that some unfortunate thing may happen to them.

**BF26 Rock Rose**

The Remedy of emergency. For cases where there even appears no hope. In accident or sudden illness, or when the patient is very frightened or terrified. If the patient is not conscious the lips may be moistened with the remedy.

**BF27 Rock Water**

Those who are very strict in their way of living; they deny themselves many of the joys and pleasures of life because they consider it might interfere with their work. They are hard masters to themselves. They wish to be well and strong and active, and will do anything that they believe will keep them so. They hope to be examples that will appeal to others who may then follow their ideas and be better as a result.

**BF28 Scleranthus**

Those who suffer much from being unable to decide between two things, first one seeming right then the other. They are usually quiet people, and bear their difficulty alone, often refusing to discuss it with others.

**BF29 Star Of Bethlehem**

For those in great distress under conditions which for a time produce great unhappiness. The shock of serious news, the loss of someone dear, the fright following an accident, and such like. For those who for a time refuse to be consoled, this remedy brings comfort.

**BF30 Sweet Chestnut**

For those moments which happen to some people when the anguish is so great as to seem to be unbearable. When the mind or body feels as if it had borne to the uttermost limit of its endurance, and that now it must give way. When it seems there is nothing but destruction and annihilation left to face.

**BF31 Vervain**

Those with fixed principles and ideas, which they are confident, are right, and which they very rarely change. They have a great wish to convert all around them to their own views of life. They are strong of will and have much courage when they are convinced of those things that they wish to teach. In illness they struggle on long after many would have given up their duties.

**BF32 Vine**

Very capable people, certain of their own ability, confident of success. Being so assured, they think that it would be for the benefit of others if they could be persuaded to do things as they themselves do, or as they are certain is right. Even in illness they will direct their attendants. They may be of great value in emergency.

**BF33 Walnut**

For those who have definite ideals and ambitions in life and are fulfilling them, but on rare occasions are tempted to be led away from their own ideas, aims and work by the enthusiasm, convictions or strong opinion of others. The remedy gives constancy and protection from outside influences.

**BF34 Water Violet**

For those who in health or illness like to be alone. Very quiet people, who move about without noise, speak little, and then gently. Very independent, capable and self-reliant. Almost free of the opinions of others. They are aloof, leave people alone and go their own way. Often clever and talented.

**BF35 White Chestnut**

For those who cannot prevent thoughts, ideas, arguments which they do not desire from entering their minds. Usually at such times when the interest of the moment is not strong enough to keep the mind full. Thoughts that worry and will remain, or if for a time thrown out, will return. They seem to circle round and round and cause mental torture. The presence of such unpleasant thoughts drives out peace and interferes with being able to think only of the work or pleasure of the day.

**BF36 Wild Oat**

Those who have ambitions to do something of prominence in life, who wish to have much experience, and to enjoy all that which is possible for them, to take life to the full. Their difficulty is to determine what occupation to follow; as although their ambitions are strong, they have no calling which appeals to them above all others. This may cause delay and dissatisfaction.

**BF37 Wild Rose**

Those who without apparently sufficient reason become resigned to all that happens, and just glide through life, take it as it is, without any effort to improve things and find some joy. They have surrendered to the struggle of life without complaint.

**BF38 Willow**

For those who have suffered misfortune and find these difficult to accept, without complaint or resentment, as they judge life much by the success which it brings. They feel that they have not deserved so great a trial and they become embittered. They often take less interest in those things of life which they had previously enjoyed.

**BF39 Rescue Remedy**

A combination of Cherry Plum, Clematis, Impatiens, Rock Rose, Star of Bethlehem. All purpose emergency composite for effects of anguish, examinations, going to the dentist, etc. Comforting, calming and reassuring to those distressed by startling experiences.

# Bacteria 1 Test Kit

## 56 vials

*The energy patterns of MRSA, staphylococcus aureus, streptococcus pneumoniae and pyrogenes, mycobacterium tuberculosis, whooping cough, meningitis, escherichia coli, clostridium difficile etc. Many more of the bacteria associated with Lyme's disease are available in the Lyme Plus Kit.*

Bacteria are abundant in air, soil and water. Some are beneficial (e.g. those living in intestine and breaking down food) and some are harmless to humans. Bacteria that are harmful are known as pathogens.

Three main categories: cocci (spherical), bacilli (rod-shaped) and spirochaetes or spirilla (spiral-shaped). Bacteria can grow in an inert medium. Susceptible to antibiotics.

Commensal = a bacteria which normally lives in or on the body and is considered medically to be harmless  
Nosocomial infection: contracted in hospital

In the popular mind viruses are often seen as being more deadly than bacteria, but most of the most intransigent illnesses are as a result of bacterial infection.

It is easy to think solely of bacteria in relation to acute infection, food poisoning and respiratory problems, but bacteria can have much wider implications than that. For example, streptococcus mutans is implicated in tooth decay, and helicobacter pylori in peptic ulcers.

Some bacteria are beneficial. There are bacteria in the gut that produce some B vitamins and vitamin K.  
Some bacteria provide a protective acid mantle on the skin.

### BCT1 **Acinetobacter**

Respiratory symptoms, nosocomial infections; ubiquitous in environment.

### BCT2 **Actinomyces**

Liver abscess, fever, abdominal pain, actinomycosis; Actinomyces Israelii commensal of human mouth.

### BCT3 **Bacilli Gram Positive and Negative**

### BCT4 **Bacillus Megaterium**

Meningitis; present in the throats of about 10% of the population.

### BCT5 **Bacillus Subtilis**

Produces sticky yellow patches on bread.

### BCT6 **Bordetella Pertussis**

Whooping cough.

### BCT7 **Borrelia Burgdorferi**

Lyme disease (Lyme Borreliosis) vector is a tick which is dependent on wild rodents and deer.

### BCT8 **Brucella Abortus**

Influenza- like symptoms, fever, arthritis, headaches, irritability, insomnia and confusion, septicemia from cattle; unpasteurised dairy products.

### BCT9 **Campylobacter**

Food poisoning, diarrhoea; on increase. Types C. jejuni and c. fetus; found in raw meat, untreated water and unpasteurised dairy products.

### BCT10 **Clostridium Botulinum**

Botulism, muscle paralysis, vomiting, tiredness, food poisoning caused by the neurotoxin of CB.

### BCT11 **Clostridium Tetani**

Muscle rigidity followed by spasmodic muscle contraction with pallor and sweating; found in soil.

### BCT12 **Clostridium Welchii**

Cellulitis

### BCT13 **Cocci Gram Pos and Neg**

### BCT14 **Corynebacterium Diphtheriae**

Diphtheria, tonsillitis/ pharyngitis, croup.

### BCT15 **Escherichia Coli**

Meningitis in babies, diarrhoea, liver abscess, fever, abdominal pain, urinary tract infection; commensal of human intestine; popularly known as E. Coli; found in raw and undercooked meat, raw vegetables and unpasteurised milk.

### BCT16 **Gardnerella Vaginalis**

Occasionally slightly smelly, non-itchy discharge; commensal of female vagina.

**BCT17 Haemophilus Influenzae**

Conjunctivitis, difficulty in breathing, sinusitis, otitis media, pneumonia, meningitis in children; commensal in human upper respiratory tract. 6 types; type b causes meningitis.

**BCT18 Helicobacter Pylori**

Gastritis, dyspepsia, peptic ulcer, possibly gastric cancer.

**BCT19 Legionella Pneumophila**

Respiratory symptoms, pus in lungs, lung abscess, Legionnaires' disease, hepatitis; nosocomial infection; a widespread naturally occurring aquatic organism, transmitted by airborne droplets often from air-conditioning units.

**BCT20 Leptospira**

High fever, headache, myalgia, conjunctivitis, Weil's disease transmitted by rodents and infected water; 2 sub-species.

**BCT21 Listeria Monocytogenes**

Meningitis in babies; from unpasteurised dairy products and inadequately cooked meat, ubiquitous in soil.

**BCT22 Mycobacterium Bovis**

Pneumonia, tuberculosis.

**BCT23 Mycobacterium Leprae**

Leprosy endemic in Africa, India, SE Asia, Central and South America.

**BCT24 Mycobacterium Tuberculosis**

T.B., conjunctivitis, sinusitis, pneumonia, childhood pneumonia, tuberculosis, chronic hepatitis, urinary tract infection.

**BCT25 Mycoplasma Pneumoniae**

Croup, otitis media, pus in lungs, childhood pneumonia, acute hepatitis; commensal of human respiratory tract.

**BCT26 Neisseria Gonorrhoea**

Gonorrhoea, conjunctivitis, tonsillitis/ pharyngitis, pain on passing urine, discharge, pain in abdomen.

**BCT27 Neisseria Meningitidis /Meningococcus**

Conjunctivitis, tonsillitis/ pharyngitis, pneumonia, meningitis, meningitis in children in western countries group B is predominant organism followed by C. Group A in parts of Africa, Middle East and India.

**BCT28 Pseudomonas Aeruginosa**

Urinary tract infection, respiratory symptoms, otitis media, lung abscess, meningitis in babies, wound infection; commensal of human intestinal flora.

**BCT29 Salmonella**

Food poisoning, diarrhoea; on increase; found in raw meat, poultry, eggs, raw unwashed vegetables, unpasteurised dairy products.

**BCT30 Salmonella Paratyphi**

Typhoid.

**BCT31 Salmonella Typhi**

Typhoid fever, liver abscess, fever, abdominal pain, food poisoning.

**BCT32 Shigella**

Diarrhoea, bacillary dysentery 4 sub-groups: S. dysenteriae (developing countries), S. flexneri (developing countries), S. boydii, S. sonnei (endemic in developed countries).

**BCT33 Staphylococcus Aureus**

Respiratory symptoms, conjunctivitis, styes, difficulty in breathing, otitis media, pus in lungs, pneumonia, childhood pneumonia, breathlessness, chest pain, endocarditis, meningitis in elderly, brain abscess, cellulitis, food poisoning, liver abscess, fever, abdominal pain, urinary tract infection; common skin commensal; some strains are now becoming antibiotic resistant.

**BCT34 Staphylococcus Epidermidis**

Breathlessness, chest pain, endocarditis, urinary tract infection.

**BCT35 Streptococcus Lactis****BCT36 Streptococcus Agalaciae**

Neonatal infection, septicaemia, meningitis, nosocomial infection; commensal in intestine and female genital tract.

**BCT37 Streptococcus Mutans**

Dental caries.

**BCT38 Streptococcus Pneumoniae**

Conjunctivitis, difficulty in breathing, sinusitis, otitis media, pus in lungs, pneumonia, childhood pneumonia, meningitis, meningitis in elderly and children, brain abscess; commensal of human upper respiratory tract.

**BCT39 Streptococcus Pyogenes**

Sore throat, tonsillitis/ pharyngitis, difficulty in breathing, sinusitis, otitis media, pus in lungs, lung abscess, pneumonia, rheumatic fever, scarlet fever, impetigo, cellulitis, liver abscess, fever, abdominal pain, toxic shock, septicaemia.



**BCT40 Streptococcus Viridans**

Breathlessness, chest pain, endocarditis.

**BCT41 Vibrio Cholera**

Cholera growing problem in S America, Middle East, Africa and Asia.

**BCT42 Yersinia Pestis**

Pneumonia, plague.

**BCT43 Anthrax**

Affects the skin and lungs; spread from livestock; extremely rare in developed countries; but a possible agent of biological warfare.

**BCT44 MRSA/ Methicillin Resistant Staphylococcus Aureus**

A version of staph aureus that is resistant to antibiotics; can cause death particularly in weakened people most cases occur in hospital patients.

**BCT45 Bacillus Cereus**

Food poisoning often associated with fried rice that has been cooked and then held at warm temperatures for several hours.

**BCT46 Clostridium Perfringens**

Pneumonia; widely distributed in the environment and frequently occurs in the intestines of humans and many domestic and feral animals.

**BCT47 Enterobacter Aerogenes**

Found in human digestive tract.

**BCT48 Klebsiella Pneumoniae**

Urinary tract infections; pneumonia and urinary tract infections; tends to affect people with underlying diseases, particularly in hospital.

**BCT49 Micrococcus Luteus**

Inhabits mammalian skin; opportunistic infection.

**BCT50 Proteus Vulgaris**

Urinary tract infections.

**BCT51 Salmonella Enteritidis**

Fever, abdominal cramps, and diarrhoea; from contaminated eggs.

**BCT52 Streptococcus Mitis**

Found in saliva, sputum and faeces.

**BCT53 Borrelia Vincent**

Causes severe ulcerating gingivitis (trench mouth); typically found in those with poor oral hygiene but can also occur as a result of stress, cigarette smoking and poor nutrition; also can be found in those with serious illnesses.

**BCT54 Clostridium Difficile**

Diarrhoea, colitis, peritonitis; often after normal gut flora is eradicated by the use of antibiotics; infection often occurs in hospital and in nursing homes; some adults have low numbers of the bacteria without any symptoms; common in the intestine of babies and infants, but does not cause disease because its toxins do not damage their immature intestinal cells.

**BCT55 Mycobacterium Paratuberculosis**

Found in the intestinal tract of some people with Crohn's disease (about 7.5% of those studied); found in less than 1% of healthy individuals (Food Safety Authority of Ireland); in the USA, 40% of large dairy herds are infected with Mycobacterium paratuberculosis; can survive pasteurisation.

**BCT56 Neisseria Catarrhalis/ Moraxella Catarrhalis / Micrococcus Catarrhalis / Branhamella Catarrhalis**

A common cause of otitis media and sinusitis and an occasional cause of laryngitis; causes bronchitis or pneumonia in children and adults with underlying chronic lung disease commensal in nasopharynx.

**Bacteria 2 Test Kit next page.....**

# Bacteria 2 Test Kit

## 37 vials

*This kit includes 2 salmonella strains, Staphylococcus Saprophyticus (linked to cystitis), Propionibacterium Acnes (acne), Mycoplasma Fermentans (Gulf war syndrome) and two Vibrio strains (gastrointestinal illness from shellfish). It also includes bacteria that cause opportunistic infections when the immune system is compromised and bacteria that are part of or affect the normal human flora.*

### **BCT57 Actinomyces Viscosus**

Part of the human oral flora, occurring around the teeth, gums and throat in healthy humans. Causes dental caries particularly of the roots of teeth. Can cause abscesses in the mouth, lungs, or the gastrointestinal tract.

### **BCT58 Aggregatibacter Actinomycetemcomitans / Actinobacillus Actinomycetemcomitans**

Part of the human oral flora; also found in severe infections in the oral cavity, mainly the periodontium.

### **BCT59 Bacteroides Fragilis**

Involved in 90% of anaerobic peritoneal infections of the abdominal cavity.

### **BCT60 Burkholderia Cepacia**

Tends to affect people who have weakened immune systems or chronic lung diseases, particularly cystic fibrosis; a known cause of infections in hospitalised patients.

### **BCT61 Clostridium Septicum**

Causes gangrene. Generally associated with gastrointestinal or hematologic malignancies. An association exists with colon carcinoma.

### **BCT62 Eikenella Corrodens**

A commensal of the human mouth and upper respiratory tract. An opportunistic human pathogen, leading to serious diseases such as periodontitis, osteomyelitis, meningitis, empyema, and endocarditis.

### **BCT63 Enterococcus Faecalis / Streptococcus Faecalis**

Can cause life-threatening infections in humans, especially in the hospital environment. Frequently found in root canal-treated teeth. Can cause endocarditis and bacteremia, urinary tract infections, meningitis, and other infections. Among the main constituents of some probiotic food supplements.

### **BCT64 Enterococcus Faecium**

Can be commensal in the human intestine, but it may also be pathogenic, causing diseases such as neonatal meningitis.

### **BCT65 Fusobacterium Nucleatum**

Found in the mouth and upper respiratory tract. A key component of dental plaque. Possible role in periodontal disease. Occasional cause of abscesses and blood infections.

### **BCT66 Gemella Morbillorum / Streptococcus Morbillorum**

Part of the normal mouth flora.

### **BCT67 Group A Streptococcus / GAS**

Often found in the throat and on the skin. Illnesses include strep throat and occasionally invasive GAS disease. People may be carriers and experience no health problems themselves

### **BCT68 Group B Streptococcus /GBS**

In new-borns most commonly causes sepsis (infection of the blood), pneumonia and sometimes meningitis. In adults causes bloodstream infections, pneumonia, skin and soft-tissue infections, and bone and joint infections.

### **BCT69 Mycobacterium Abscessus**

Causes infections of the skin and the soft tissues under the skin. Also a cause of serious lung infections in those with various chronic lung diseases, such as cystic fibrosis. Has been known to contaminate medications and products, including medical devices.

### **BCT70 Mycobacterium Intracellulare**

Causes lung diseases.

### **BCT71 Mycobacterium Marinum**

Causes opportunistic infections in humans when the immune system (for example) is compromised already.

### **BCT72 Mycoplasma Fermentans**

Has been linked to Gulf War Syndrome and rheumatoid arthritis.

### **BCT73 Mycoplasma Genitalium**

Can be transmitted between partners during unprotected sexual intercourse. Role in genital diseases is still unclear. Believed to be involved in pelvic inflammatory diseases.

### **BCT74 Mycoplasma Hominis**

Found in the vagina; unclear if it is part of the normal flora. Found in the genito-urinary tract and is considered to be an opportunistic pathogen. Has been associated with post-abortion and post-partum fever.

**BCT75 Mycoplasma Penetrans**

Found in the urogenital and respiratory tracts. Has been linked to HIV infections.

**BCT76 Mycoplasma Salivarium**

Found in the human mouth; not regarded usually as pathogenic.

**BCT77 Porphyromonas Gingivalis / Bacteroides Gingivalis**

Part of the normal flora of the mouth, intestine and urogenital tract. Found in periodontal lesions and associated with adult gingivitis, periodontal disease and mouth abscesses.

**BCT78 Prevotella Intermedia / Bacteroides Intermedia / Bacteroides Melaninogenicu**

Involved in periodontal infections, including gingivitis and periodontitis.

**BCT79 Propionibacterium Acnes**

Lives on the skin and is linked to the skin condition acne. Largely commensal and part of the skin flora present on most healthy adult human skin.

**BCT80 Proteus Mirabilis**

Causes 90% of all Proteus infections in humans. Approximately 25% of people have this bacteria in their faeces. Causes problems when urinary tract is disturbed (e.g. after catheterisation).

**BCT81 Salmonella Enterica / Salmonella Choleraesuis**

Causes salmonellosis; family members working with cattle or in a veterinary clinic can be source.

**BCT82 Salmonella Typhimurium/ Salmonella Choleraesuis Serotype Typhimurium / Salmonella Typhi-Murium/ Bacillus Typhimurium /Salmonella Typhi-Murium**

Causes gastroenteritis.

**BCT83 Serratia Marcescens / Bacterium Prodigosum**

Found on the sub-gingival biofilm of teeth. Commonly found in the respiratory and urinary tracts of hospitalised adults and in the gastrointestinal system of children. May cause pneumonia and urinary tract infections. Often found growing in bathrooms as a pink discoloration and slimy film.

**BCT84 Staphylococcus Saprophyticus**

Often implicated in urinary tract infections and cystitis.

**BCT85 Stomatococcus Mucilaginosus /Micrococcus Mucilaginosus / Staphylococcus Salivarius**

Part of the normal human oral flora and upper respiratory tract flora.

**BCT86 Streptococcus Salivarius**

The principal commensal bacterium of the oral cavity and a normal inhabitant of the upper respiratory tract. The first bacterium that colonises dental plaque, creating favourable conditions for other bacteria.

**BCT87 Treponema Pallidum**

Causes diseases such as syphilis.

**BCT88 Ureaplasma Parvum**

Can cause male urethritis, suppurative arthritis, adverse pregnancy outcomes, chorioamnionitis (inflammation of membranes in the fetus), surgical wound infections, neonatal meningitis, pelvic inflammatory diseases and pyelonephritis.

**BCT89 Ureaplasma Urelyticum**

Part of the normal genital flora of both men and women. It is found in about 70% of sexually active humans. Has been linked to (but not confirmed) non-specific urethritis, infertility, chorioamnionitis, stillbirth, premature birth, and, in the perinatal period, pneumonia, bronchopulmonary dysplasia and meningitis.

**BCT90 Vancomycin-Resistant Enterococci/ VRE**

Can live in the human intestines and female genital tract without causing disease; sometimes can cause infections of the urinary tract, the bloodstream, or of wounds associated with catheters or surgical procedures.

**BCT91 Vancomycin-Resistant Staphylococcus / VRSA**

A problem for people with other underlying health conditions (such as diabetes and kidney disease), tubes going into their bodies (such as catheters), previous infections with methicillin-resistant Staphylococcus aureus (MRSA), and recent exposure to vancomycin, etc.

**BCT92 Vibrio Parahaemolyticus**

Found in brackish saltwater and causes gastrointestinal illness ( watery diarrhoea often with abdominal cramping, nausea, vomiting, fever and chills). Most people become infected by eating raw or undercooked shellfish, particularly oysters.

**BCT93 Vibrio Vulnificus**

Causes an infection (gastrointestinal illness, fever, or shock) often after eating seafood, especially oysters or exposing an open wound to sea water.

## Bacteria 3 Test Kit next page.....

# Bacteria 3 Test Kit

## 56 vials

***More bacteria including some that are important in the human biome and others that are drug-resistant.***

- BCT 94 Acinetobacter Baumannii** Opportunistic pathogen, affecting people with compromised immune systems, but it is becoming increasingly important as a hospital-derived (nosocomial) infection. Referred to as 'Iraqibacter' due to its seemingly sudden emergence in military treatment facilities during the Iraq War; has continued to be an issue for veterans and soldiers who served in Iraq and Afghanistan.
- BCT 95 Acinetobacter Baumannii, Multi-Drug Resistant (MDR-AB)** A multi-drug resistant strain (MDR-AB) *A. baumannii* is an opportunistic pathogen, affecting people with compromised immune systems, and is becoming increasingly important as a hospital-derived (nosocomial) infection.
- BCT 96 Actinomyces Israelii** Found in the vagina, colon, and mouth. Infection is established first by a breach of the mucosal barrier during various procedures (dental, gastrointestinal), aspiration, or pathologies such as diverticulitis; causes actinomycosis (formation of painful abscesses in the mouth, lungs, or gastrointestinal tract).
- BCT 97 Actinomyces Odontolyticus** Part of the oral flora; also found in dental plaque and in deep dental caries. Causes actinomycosis - a granulomatous infection with the formation of abscesses in the mouth, lungs, or the gastrointestinal tract. Oral actinomycosis may occur due to trauma such as a tooth extraction or bleeding gums.
- BCT 98 Aeromonas Hydrophila** Mainly found in areas with a warm climate. Can cause gastroenteritis, mostly in young children and people who have compromised immune systems or growth problems; also associated with cellulitis. Can cause myonecrosis and eczema in people with compromised or suppressed immune systems, or in rare cases necrotising fasciitis.
- BCT 99 Bacteroides Thetaiotaomicron** The most common bacterium found in the human colon / intestinal tract; considered an opportunistic pathogen, frequently associated with peritonitis, septicemia, and wound infections; capable of causing very serious infections, such as intra-abdominal sepsis and bacteraemia.
- BCT 100 Bifidobacterium Animalis** Found in the large intestines and important for healthy digestion; used in some probiotic foods, e.g. yoghurt.
- BCT 101 Bifidobacterium Sp.** Present in the gastrointestinal tract, mouth and vagina; responsible for suppressing pathogenic microorganisms and are rarely pathogenic themselves. Used as probiotics.
- BCT 102 Bordetella Holmesii** Associated with septicaemia, endocarditis, and respiratory illness, especially in immunocompromised patients, such as asplenic or AIDS patients; often seen in conjunction with whooping cough; can cause septic arthritis.
- BCT 103 Burkholderia Pseudomallei / Pseudomonas Pseudomallei** infects humans and animals and causes the disease melioidosis (pain in chest, bones, or joints; cough; skin infections, lung nodules and pneumonia), particularly in Thailand and northern Australia.
- BCT 104 Campylobacter Jejuni** Commonly found in animal faeces, so infection through contaminated water and food; the most common causes of bacterial infections in humans worldwide, causing gastroenteritis and food poisoning; has been linked with subsequent development of Guillain-Barré syndrome, which usually develops two to three weeks after the initial illness.
- BCT 105 Campylobacter Rectus** Involved with periodontal disease and can cause abscesses in the mouth.
- BCT 106 Capnocytophaga Canimorsus** Transmission may occur through bites, licks, or even close proximity with animals. Can cause severe illness in persons with pre-existing conditions. Symptoms include mild flu-like symptoms, fever, vomiting, diarrhoea, malaise, abdominal pain, myalgia, confusion, dyspnoea, headaches, and skin rashes such as exanthema. More severe cases of endocarditis, disseminated intravascular coagulation and meningitis have been reported.
- BCT 107 Capnocytophaga Ochracea** Found in the oral cavity; contributes to early plaque formation on teeth by being a physical intermediate link between several Streptococcus species and *F. nucleatum*; also found in some animal bite wounds.
- BCT 108 Capnocytophaga Sputigena** Found in the oral cavity; also found in some animal bite wounds. an opportunistic pathogen in humans, especially in immunocompromised patients.
- BCT 109 Cardiobacterium Hominis** Normally present in the mouth and upper part of the respiratory tract such as nose and throat; very rarely causes endocarditis, an infection of the heart valves.
- BCT 110 Citrobacter Freundii** As an opportunistic pathogen, responsible for a number of significant infections; known to be the cause of nosocomial infections of the respiratory tract, urinary tract and blood. *C. F.* Represents about 29% of all opportunistic infections.
- BCT 111 Clostridium Cadaveris** Usually considered non-pathogenic; unlike other species of Clostridium, it does not

produce toxins. Normal component of the human intestinal tract.

**BCT 112 Clostridium Sporogenes** Present in the human gastrointestinal tract in some people; in the intestine, it uses tryptophan to synthesize indole and subsequently 3-indolepropionic acid (IPA), which serves as a potent antioxidant within the human body and brain.

**BCT 113 Clostridium Tertium** Traditionally been considered non-pathogenic, but increasingly being reported as a human pathogen. Has been associated with bacteraemia, meningitis, septic arthritis, enterocolitis, spontaneous bacterial peritonitis, post-traumatic brain abscess, and pneumonia.

**BCT 114 Cronobacter Sakazakii / Enterobacter Sakazakii** In infants can cause bacteraemia, meningitis and necrotising enterocolitis; can cause wound infections or urinary tract infections; people with immunocompromising conditions and the elderly may also develop bloodstream infection. Has been found in a variety of dry foods, including powdered infant formula, skimmed milk powder, herbal teas, and starches; also been found in wastewater. Cronobacter illnesses are rare, but they are frequently lethal for infants and can be serious among people with immunocompromising conditions and the elderly.

**BCT 115 Eikenella Corrodens / Bacteroides Corrodens** Found in the oral cavity (dental plaque) and the intestinal and genital tracts.

**BCT 116 Enterobacter Cloacae** Part of the normal gut flora of many humans; not usually a primary pathogen, but is sometimes associated with urinary tract and respiratory tract infections.

**BCT 117 Enterococcus Faecium - Vancomycin Resistant (VRE)** Found in the human intestine, but can be pathogenic, causing diseases such as neonatal meningitis or endocarditis. Vancomycin-resistant enterococci is resistant to the antibiotic vancomycin; sometimes called a "superbug".

**BCT 118 Escherichia Coli - Carbapenem Resistant (CRE)** E coli strain resistant to carbapenem antibiotics; found in hospitals, nursing homes, and other healthcare settings.

**BCT 119 Escherichia Hermannii** Generally considered non-pathogenic but has been isolated from human wounds, eye infections, periodontal lesions, and blood.

**BCT 120 Eubacterium Yurii** Possibly involved in periodontal disease.

**BCT 121 Francisella Tularensis** Can cause Rat bite fever and Haverhill fever; classified as a potentially bioterrorism agent by the US government. Humans can become infected through tick and deer fly bites, skin contact with infected animals, exposure to contaminated water, inhalation of contaminated aerosols or agricultural dusts.

**BCT 122 Haemophilus Ducreyi** Causes the sexually transmitted disease chancroid, a major cause of genital ulceration in developing countries characterized by painful sores on the genitalia.

**BCT 123 Klebsiella Granulomatis / Calymmatobacterium Granulomatis** Causes the sexually transmitted disease granuloma inguinale (or donovanosis).

**BCT 124 Kocuria Rosea** Implicated in occasional urinary tract infections in immunocompromised patients; peritonitis.

**BCT 125 Lactobacillus Acidophilus** Occurs naturally in the intestine, mouth, and vagina; helps protect the vagina from pathogenic infection. Also produces enzyme lactase that breaks down milk sugar (lactose) into simple sugars. People who are lactose intolerant do not produce this enzyme. The most commonly used probiotic.

**BCT 126 Lactobacillus Bulgaricus** Occurs naturally in the human gastrointestinal tract; helpful to people suffering from lactose intolerance. Used as a probiotic supplement.

**BCT 127 Lactobacillus Plantarum** Part of the normal flora -mouth, vagina, and intestinal tract; has significant antioxidant activities and also helps to maintain the intestinal permeability; also able to suppress the growth of gas producing bacterium in the intestines; may cause endocarditis, neonatal meningitis and bacteraemia. Used as a probiotic.

**BCT 128 Lactobacillus Salivarius** Lives in the gastrointestinal tract; helps to suppress pathogenic bacteria. Used as a probiotic supplement.

**BCT 129 Methanobrevibacter Smithii** Note: this is no longer classified as a bacteria but as an archaeon; the predominant archaeon in the human gut, playing an important role in the efficient digestion of polysaccharides (complex sugars) by consuming the end products of bacterial fermentation.

**BCT 130 Moraxella Osloensis** Part of the human flora, especially the upper respiratory tract and occasionally of the skin and urogenital tract; has been implicated in conjunctivitis, wound sepsis, vaginal discharges, meningitis, brain abscess, septicaemia, endocarditis, arthritis osteomyelitis and urethritis.

**BCT 131 Mycobacterium Avium Complex /MAC** Commensal organisms in humans, living predominantly in the mouth, skin, gastrointestinal, vagina and urinary tracts, and compose a portion of the bacterial gut flora. Can become pathogenic and cause respiratory problems.

**BCT 132 Mycobacterium Tuberculosis, Drug Resistant (MDR-TB And XDR-TB)** Drug-resistant strains of M tuberculosis, the bacteria that causes TB: Multidrug Resistant TB bacteria (MDR-TB) and Extensively Drug Resistant TB bacteria (XDR-TB).

- BCT 133**      **Neisseria Mucosa**      Part of the normal human nasopharyngeal flora and infrequently causes infections, including meningitis.
- BCT 134**      **Neisseria Subflava**      Found in the human upper respiratory tract; generally non-pathogenic, but can in rare cases cause post-operative meningitis.
- BCT 135**      **Peptostreptococcus**      Lives predominantly in the mouth, skin, gastrointestinal, vagina and urinary tracts, and compose a portion of the bacterial gut flora. Can cause brain, liver, breast, and lung abscesses, as well as generalized necrotizing soft tissue infections.
- BCT 136**      **Plesiomonas Shigelloides**      Can cause diarrhoea/gastroenteritis.
- BCT 137**      **Prevotella Copri**      Helps in the digestion of food as well as helping to keep harmful bacteria at bay; a correlation with the development of rheumatoid arthritis.
- BCT 138**      **Prevotella Melaninogenica**      Part of the oral and vaginal flora, particularly in those who eat a lot of carbohydrates and fibre; may cause pneumonia, lung abscesses, and chronic otitis media and sinusitis.
- BCT 139**      **Shigella Flexneri** Causes diarrhoea.
- BCT 140**      **Shigella Sonnei**      Causes diarrhoea.
- BCT 141**      **Staphylococcus Haemolyticus, Vancomycin Resistant / VRSH**      Strain that resists the antibiotic vancomycin. *S. haemolyticus* is part of the skin flora; infection often associated with the insertion of medical devices, e.g. catheters; has tendency to form biofilms.
- BCT 142**      **Staphylococcus Warneri**      Part of the skin flora; rarely causes disease, but may occasionally cause infection in patients whose immune system is compromised.
- BCT 143**      **Stenotrophomonas Maltophilia, Multiple Drug Resistant**      A multiple drug resistant strain (MDR). Infection often associated with the insertion of medical devices, e.g. catheters; a relatively unusual cause of pneumonia, urinary tract infection, or bloodstream infection; an increasing problem for people with cystic fibrosis.
- BCT 144**      **Streptobacillus Moniliformis**      Causes rat bite fever and Haverhill fever.
- BCT 145**      **Streptococcus Pneumoniae, PRSP And DRSP**      Penicillin-resistant (PRSP) and drug-resistant strain (DRSP). *S. pneumoniae* found in the nasopharynx of healthy carriers, who do not experience any symptoms; causes bronchitis, pneumonia, rhinitis, acute sinusitis, otitis media, conjunctivitis, meningitis, bacteraemia, sepsis, osteomyelitis, septic arthritis, endocarditis, peritonitis, pericarditis, cellulitis, and brain abscesses.
- BCT 146**      **Streptococcus Sanguinis / Streptococcus Sanguis** a normal inhabitant of the healthy mouth where it is particularly found in dental plaque, where it modifies the environment to make it less hospitable for other strains of *Streptococcus* that cause cavities, such as *Streptococcus mutans*. The most common cause of subacute bacterial endocarditis.
- BCT 147**      **Treponema Denticola**      Part of the microbial community within the mouth; associated with periodontal disease. Has also been isolated from women with bacterial vaginosis.
- BCT 148**      **Veillonella**      Part of the microbial community within mouth and intestine. Very occasionally implicated in cases of osteomyelitis and endocarditis.
- BCT 149**      **Yersinia Enterocolitica**      Causes the disease yersiniosis; acquired usually by insufficiently cooked pork or contaminated water, meat, or milk; symptoms may include watery or bloody diarrhea and fever, resembling appendicitis or salmonellosis or shigellosis.



# Biofilms Test Kit

15 vials

Biofilms can make bacteria in the body difficult to find and counteract. A biofilm can also “HIDE” other organisms too.

Bacteria living in a biofilm usually have significantly different properties from free-floating bacteria of the same species, as the dense and protected environment of the film allows them to cooperate and interact in various ways.

A biofilm is any group of microorganisms in which cells stick to each other on a surface. These adherent cells are frequently embedded within a self-produced matrix of extracellular polymeric substance (EPS). Biofilm extracellular polymeric substance, which is also referred to as slime (although not everything described as slime is a biofilm), is a polymeric conglomeration generally composed of extracellular DNA, proteins, and polysaccharides. Microbes form a biofilm in response to many factors, which may include cellular recognition of specific or non-specific attachment

sites on a surface, nutritional cues, or in some cases, by exposure of planktonic cells to subinhibitory

concentrations of antibiotics.

Biofilms have been found to be involved in a wide variety of microbial infections in the body, by one estimate 80% of all infections. Infectious processes in which biofilms have been implicated include

common problems such as urinary tract infections, catheter infections, middle-ear infections, formation of dental plaque, gingivitis, coating contact lenses, and less common but more lethal processes such as endocarditis, infections in cystic fibrosis, and infections of permanent indwelling devices such as joint prostheses and heart valves. More recently it has been noted that bacterial biofilms may impair cutaneous wound healing and reduce topical antibacterial efficiency in healing or treating infected skin wounds.

BIO 01

Bacillus Subtilis Biofilm

BIO 09

Pseudomonas Aeruginosa Biofilm

BIO 02

Candida Albicans Biofilm

BIO 10

Salmonella Enteritidis Biofilm

BIO 03

Dental Plaque with Bacilli Biofilm

BIO 11

Serratia Liquefaciens Biofilm

BIO 04

Dental Plaque with Bacteria and Yeast

BIO 12

Serratia Marcescens Biofilm

BIO 05

Dental Plaque with Cocci Biofilm

BIO 13

Staphylococcus Aureus Biofilm

BIO 06

Dental Plaque with Fungi & Bacteria

BIO 14

Staphylococcus Epidermidis Biofilm

BIO 07

Escherichia Coli bacteria starting to develop a biofilm

BIO 15

Staphylococcus Sp. Biofilm.

BIO 08

Proteus Mirabilis Biofilm

# Body Biochemical 1 Test Kit

## 25 vials

*The energy patterns of neurotransmitters, peptides, histamine, urea, cholesterol, substance P, complement C7, interferon alpha, etc. 25 vials.*

### BB1 Acetylcholine/ Ach

At all nerve-muscle junctions as well as many other sites in the nervous system; contraction of skeletal muscles, control of sweat glands and heart beat; transmits messages between neurons in the brain and spinal cord.

Myasthenia gravis and Alzheimer's disease; nicotine mimics this neurotransmitter.

### BB2 Angiotensin I

Converted by angiotensin converting enzyme into angiotensin II; ACE inhibitor drugs work by reducing the conversion of angiotensin I to angiotensin II.

### BB3 Angiotensin II

Produced from renin released by kidneys; stimulates thirst; promotes release of aldosterone, which increases the rate of salt and water re-absorption from the kidneys; vasoconstriction of arterioles to increase blood pressure ACE inhibitor drugs work by reducing the conversion of angiotensin I to angiotensin II.

### BB4 Bilirubin

Yellow pigment that is one of the end products of hemoglobin breakdown in the liver, spleen and bone marrow and is excreted as a waste material in the bile; associated with jaundice products formed from the breakdown of bilirubin are responsible for the brown colour of stools.

### BB5 Bombesin

Stimulates release of gastric and pancreatic hormones; contraction of the smooth muscles in gastric and urinary tract, and in the uterus; can inhibit the secretion of growth hormone; itching and lowered body temperature.

### BB6 Cathepsin C

Found in skin and bone cells, activates several of the chemicals controlling local immune and inflammatory responses; gum health; Papillon-Lefèvre syndrome (warty thickened skin, principally on hands and soles of feet; periodontitis and gingivitis).

### BB7 Cholesterol

From food and also synthesized in liver; most abundant steroid in animal tissue; synthesis of steroid hormones and bile salts; stabilizing cell membranes.

### BB8 Complement C7

Part of non-specific resistance and immunity; enhance allergic and inflammatory reactions; with other complement proteins forms large holes in the microbe, allowing fluid to flow in and the microbe then bursts.

### BB9 C-Reactive Protein

Elevated levels indicate an increased risk of heart attack and stroke in the future; necessary for acute stage of inflammation but inappropriate for chronic stage; effective against bacteria, parasites and immune complexes; synthesized by liver.

### BB10 Cyclic Adenosine-3',5' – monophosphate/Cyclic AMP

Formed from ATP by action of adenylate cyclase; serves as second messenger for some hormones; increase in cAMP causes adipose cells to break down triglycerides and release fatty acids more rapidly; stimulates thyroid cells to secrete more thyroid hormone.

### BB11 Cyclic Guanosine-3',5' – monophosphate/ Cyclic GMP

Mediation of certain hormones and neurotransmitters such as acetylcholine, prostaglandins and histamine; involved in light/dark adaptation of the eye.

### BB12 Dopamine/Da

In parts of the brain that control subconscious movement of skeletal muscles; regulating muscle tone; increases the efficiency of the heartbeat and helps return the blood pressure to normal; involved in emotional responses; decreased levels associated with Parkinson's disease; may be involved with schizophrenia, ADD, autism, and La Tourette's syndrome.

### BB13 Dynorphin A

In brain and small intestine; may be related to controlling pain and registering emotions.

**BB14 Beta Endorphin**

In brain, spinal cord, pancreas and testes; control of sensitivity to pain by inhibiting substance P; control of body's response to stress; regulation of contraction of intestinal wall; affects mood; may also regulate the release of hormones from the pituitary gland; may have a role in memory and learning, sexual activity and control of body temperature; morphine has a similar chemical structure; linked to depression and schizophrenia.

**BB15 Histamine**

Biogenic amine; in cells, mainly mast cells throughout the body, released during an allergic reaction and inflammation; narrows bronchi in lungs, increases permeability of blood vessels, lowers blood pressure, causes itching and stimulates production of acid in the stomach; secretion of digestive juices; Carl Pfeiffer has suggested too much histamine is involved in some forms of alcoholism. May be implicated in some types of schizophrenia.

**BB16 Hyaluronic Acid**

Extra-cellular, viscous material that binds cells together, lubricates joints and maintains shape of the eye ball; may help phagocytes migrate through connective tissue during development and wound healing; co-factors are N-acetyl glucosamine and glucuronic acid.

**BB17 Hydrochloric Acid**

Produced by gastric glands in the stomach to aid protein digestion by preparing proteins for the later stages of digestion; also prevents bacterial growth in the stomach excessive acid production may be stimulated by stress or tobacco smoking.

**BB18 Interferon/ alpha-interferon,/ Intron A**

Fights infection; made by certain white blood cells; naturally produced by virus-infected host cells that induce unaffected cells to synthesize antiviral proteins and so stops many viruses from replicating within body cells; has been used to treat cancer, immunodeficiency disorders, chronic infection with hepatitis B & C and chronic genital herpes; 2 other types: beta and gamma.

**BB19 Myoglobin**

Found only in muscle fibres; binds oxygen molecules that are needed for ATP production within mitochondria.

**BB20 Pyruvic Acid**

A by-product of glycolysis (production of ATP from glucose); may be converted into lactic acid, alanine or oxaloacetic acid.

**BB21 Serotonin/ 5-Ht**

In parts of the brain, blood platelets, lining of digestive tract; concerned with conscious processes, involved in controlling states of consciousness and mood; sensory perception; temperature regulation; released at site of bleeding to constrict small blood vessels and control blood loss; inhibits gastric secretion and stimulates smooth muscles in the intestinal wall; inducing sleep; inhibits release of prolactin; decreases carbohydrate cravings; provides a feeling of fullness; enhances mood; action in brain disrupted by some hallucinogenic drugs, particularly LSD; excess serotonin implicated in Raynaud's disease

**BB22 Serum Amyloid P Component**

Accumulates in extra-cellular spaces of many organs in association with different disease processes; inhibits elastase (enzyme concerned with breakdown of protein); necessary for acute stage of inflammation but inappropriate for chronic stage; removes cholesterol and lipid debris from areas of trauma; causes thickening of connective tissue; implicated in Alzheimer's disease.

**BB23 Substance P**

In sensory nerves, spinal cord and parts of brain associated with pain; enhances perception of pain; stimulates motility of the intestines; stimulates saliva production and inflammatory responses in tissues; endorphins inhibit Substance P; counters the effect of certain nerve-damaging chemicals, so may prove useful as treatment for nerve degeneration.

**BB24 Transferrin**

Protein in blood, transports iron; inhibits the growth of certain bacteria by reducing the amount of available iron.

**BB25 Urea**

Waste product of the breakdown of proteins; the main nitrogenous constituent of urine; formed in the body from the break down of cell proteins; used in some creams and ointments to moisturise and soften the skin.

# Body Biochemical 2 Test Kit

## 25 vials

*The energy patterns of more neurotransmitters, enzymes, body proteins, weight control hormones, etc.*

### BB26 Acetone / Dimethyl ketone / 2-propanone / Beta-ketopropane

Produced primarily during excessive fat metabolism, although some levels present in virtually every organ and tissue, and the blood contains some acetone; occurs naturally in plants, trees, volcanic gases and forest fires. Present in vehicle exhaust, tobacco smoke, and landfill sites; also manufactured and used widely in industry as a solvent in paints and lacquers and for cellulose plastics.

### BB27 Adenosine

Affects central nervous system and peripheral nervous system; constituent of ATP and ADP; may be involved with asthma; stimulatory effect of tea and coffee because inhibit adenosine.

### BB28 Adenylate Cyclase

Converts ATP into cAMP<sup>2</sup> within the cell.

### BB29 Albumin/Albumen

Produced by liver; most abundant (54%) and smallest of plasma proteins; regulates osmotic pressure of plasma and therefore fluid retention; carrier for metals, ions, fatty acids, amino acids, bilirubin<sup>2</sup>, enzymes and drugs – prevents them being filtered out by the kidneys and excreted in urine.

### BB30 Antithrombin III

Blocks action of clotting agents (factors XII, XI, IX, X and II).

### BB31 Atrial Natriuretic Peptide /ANP/ Atriopeptin

Produced in upper chambers of heart; increases excretion of sodium in urine; increases urine output and decreases blood volume; causes blood vessels to dilate; inhibits aldosterone<sup>1</sup> production and lowers blood pressure; children with congenital heart disease have high levels of ANP.

### BB32 Calcitriol

Aids in absorption of dietary calcium and phosphorus; secreted by kidneys; it is the active hormonal form of vitamin D

### BB33 Cortisol/

Hydrocortisone hormone the principal glucocorticoid<sup>1</sup>; increases blood glucose levels by increasing cellular utilization of proteins and fats as energy sources thus conserving glucose; stimulates liver cells to produce glucose from amino acids and fats; secretion controlled by ACTH<sup>1</sup> from anterior pituitary; counteracts the inflammatory response also used as a drug for inflammatory or allergic conditions

### BB34 Endothelin-1

Found in brain, intestines, kidneys and heart; most potent vasoconstrictor known; regulates salt transport in intestine; may be implicated in migraine; increased levels in diabetic and non-diabetic coronary artery disease; increased levels in micro-vascular angina.

### BB35 $\beta$ -Estradiol/<sup>17</sup> $\beta$ -Estradiol

Synthesized from cholesterol in ovaries; predominant oestrogen hormone in non-pregnant women; promotes development and maintenance of female reproductive structures; increases protein anabolism; lowers blood cholesterol; moderate levels inhibit release of the hormones GnRH, FSH<sup>1</sup> and LH<sup>1</sup>.

### BB36 Estriol

One of the oestrogen hormones; promotes development and maintenance of female reproductive structures; increases protein anabolism; lowers blood cholesterol; moderate levels inhibit release of the hormones GnRH, FSH<sup>1</sup> and LH<sup>1</sup>.

### BB37 Estrone

One of the oestrogen hormones; promotes development and maintenance of female reproductive structures; increases protein anabolism; lowers blood cholesterol; moderate levels inhibit release of the hormones GnRH, FSH<sup>1</sup> and LH<sup>1</sup>.

### BB38 Gamma-aminobutyrate acid/GABA

Most widely distributed inhibitory neurotransmitter; blocks noradrenaline<sup>1</sup> and dopamine<sup>2</sup>; deficiencies found in hypertension and seizures; a target for anti-anxiety drugs.

**BB39 Gamma Globulin**

Approximately 38% of blood plasma proteins; carrier for antibodies and so has a role in infection and allergies given as an injection to prevent viral hepatitis.

**BB40 Glucagon**

Raises blood sugar levels by accelerating breakdown of glycogen into glucose in the liver, converting other nutrients into glucose in the liver, and releasing glucose into the blood – opposes the action of insulin<sup>1</sup>; may stimulate the secretion of water and electrolytes by the mucosa of small intestine given by injection in the emergency treatment of people with diabetes mellitus who are unconscious as a result of hypoglycaemia.

**BB41 Glutamic Acid/ Glutamate**

Can be manufactured by the body; precursor of proline, ornithine<sup>3</sup>, arginine<sup>3</sup> and polyamines; a stimulatory neurotransmitter; can be converted in body into GABA; nearly all excitatory neurons in the CNS and possibly half of the synapses in the brain communicate via glutamate; visual adaptation to light and dark; many epileptics have increased levels of glutamic acid; part of the acute reaction to withdrawal from drug addiction includes increase production of glutamate.

**BB42 Glycine**

Can be synthesized from other amino acids (serine and threonine<sup>3</sup>); acts as an inhibitory neurotransmitter; assists in manufacture of DNA, glycerol, phospholipids, collagen, glutathione<sup>3</sup> and cholesterol<sup>2</sup> conjugates; essential for one of key liver detoxification pathways; stimulates secretion of glucagons; in spinal cord (inhibitory action) and in retina; Parkinson's disease; low levels often found in manic-depressives and epileptics; people with motor neurone disease may have impaired glycine metabolism.

**BB43 Gonadotropin Releasing Hormone (GnRP)**

Secreted by hypothalamus; stimulates release of LH<sup>1</sup> and FSH<sup>1</sup>.

**BB44 Leptin**

Released by fat cells as they synthesize triglycerides; reduces appetite; believed to inhibit neuropeptide Y; role in central control of bone mass and so possibly osteoporosis; onset of puberty; believed to have an immune system role through support of helper T cells non-insulin dependent diabetes, high blood pressure

**BB45 Neuropeptide Y**

Present in many parts of the brain and autonomic nervous system; enhances effect of norepinephrine<sup>1</sup>; stimulates appetite; causes increased storage of ingested food as fat; regulation of circadian rhythms, sexual functioning, anxiety and stress response, peripheral vascular resistance and contractility of heart; reduces energy expenditure: high circulating levels with severe exercise a gene in roundworms (closely related to the neuropeptide Y receptor gene in humans) increases social contact and interaction; research is being carried out to produce a drug for epilepsy based on this.

**BB46 Neurotensin**

Release stimulated by fatty acids; inhibits gastrointestinal motility and increases ileal blood flow; regulation of LH<sup>1</sup> and prolactin<sup>1</sup>; blocks stimulation of acid and pepsin by the vagus nerve low levels may be involved in schizophrenia, Alzheimer's disease, Parkinson's disease.

**BB47 Somatostatin**

This was inadvertently included twice in two different test kits; it has now been removed from this kit and can be found in the hormone kit (H13).

**BB47a Protein Tyrosine Phosphatase / PTP1B**

Inhibits signaling of leptin and insulin<sup>1</sup>; may explain resistance to leptin and insulin likely to be important in obesity and type 2 diabetes; drug research now being carried out to find drugs to inhibit PTP1B.

**BB48 Thyroxine/Tetraiodothyronine/T4**

Converted into T<sub>3</sub><sup>1</sup>; growth and normal development; increase rate at which cells release energy from carbohydrates; enhance protein synthesis; stimulate nervous system.

**BB49 3,3',5'-Triiodothyronine/ Reverse T3**

Reverse T<sub>3</sub> and T<sub>3</sub><sup>1</sup> are secreted in an inverse relationship allowing the thyroid to adjust the amount of thyroid activity; blocks the action of T<sub>3</sub><sup>1</sup> by binding with the receptor sites acute and chronic diseases and malnutrition also shift the T<sub>3</sub><sup>1</sup> balance to Reverse T<sub>3</sub>.

**BB50 Val-Pro- Asp-Pro-Arg**

Appetite suppressant in rats.

# Body Biochemicals 3 Test Kit

## 25 vials

*The energy patterns of 4 types of collagen, body chemicals involved in the non-specific immune response, anadamide, tumour necrosis factor alpha, more weight control hormones, etc.*

### BB51 n-Acetyl-D-Glucosamine

Builds and maintains the matrix of collagen<sup>6</sup> and connective tissue that forms the ground substance of cartilage inflammatory bowel disease; Crohn's disease.

### BB52 Anadamide

Pain control; may be used by the brain as a central fine-tuner of electrical activity; inhibits movement; involved with mood; short-term memory; male fertility (high levels slow speed of sperm); acts as a chemical messenger between the embryo and uterus during implantation of the embryo in the uterine wall; may control coughing and various respiratory functions; may increase appetite also known as "the bliss molecule" (ananda is Sanskrit for bliss) and the body's own cannabis (cannabis binds to the same receptors as anadamide); chocolate contains anadamide; may be involved in crohn's disease, Parkinson's disease, drug addiction, schizophrenia, autism and Gilles de la Tourette's syndrome.

### BB53 Collagen Type I

90% of the collagen in human body; present in bone, skin (associated with type III collagen<sup>6</sup>) and tendons; in foetal and diseased tissue, type I collagen has been reported as having a different structure.

### BB54 Collagen Type II

30% of hyaline and elastic cartilage is composed of type II collagen; present in inter-vertebral discs and the vitreous body of the eye.

### BB55 Collagen Type III

The major collagen found in skin, blood vessels and internal organs such as the smooth muscle layers of the gastrointestinal tract.

### BB56 Collagen Type V

A minor collagen as it is present in less than 10% of the total collagen in any tissue; usually found with type I<sup>6</sup> collagen and type III<sup>6</sup> collagen in bone, tendon, cornea, skin, blood vessels and lungs; during foetal development, basement membranes originally contain type V collagen before being replaced to type IV collagen.

### BB57 Complement C3

Part of non-specific immune response; turned into complement 3b which enhances phagocytosis (ingestion and destruction of cell debris, microbes and other foreign matter) ; most abundant of complement proteins; low levels of C3 often seen in gram negative septicemia, shock, lupus, fungal infections and some parasitic infections such as malaria; increased complement activity seen in cancer and ulcerative colitis; decreased complement activity in hepatitis and liver cirrhosis.

### BB58 Complement C5a

Part of non-specific immune response; contributes to the development of inflammation by dilating arterioles and causing release of histamine; increased complement activity seen in cancer and ulcerative colitis; decreased complement activity in hepatitis and liver cirrhosis.

### BB59 Complement Factor B

protein part of non-specific immune response; activates complement C3 and so the immune response; increased complement activity seen in cancer and ulcerative colitis; decreased complement activity in hepatitis and liver cirrhosis.

### BB60 Complement Factor D

protein part of non-specific immune response; activates complement C3 and so the immune response; increased complement activity seen in cancer and ulcerative colitis; decreased complement activity in hepatitis and liver cirrhosis.

### BB61 Complement Factor I

protein part of non-specific immune response; recognizes repetitive sugar structures found in cell membranes of bacteria and viruses but not in humans; triggers reactions that activate complement C3 and C5 and so the immune response; increased complement activity seen in cancer and ulcerative colitis; decreased complement activity in hepatitis and liver cirrhosis.



**BB62 Complement Factor P / Properdin**

protein part of non-specific immune response; activates complement C3 and so the immune response; increased complement activity seen in cancer and ulcerative colitis; decreased complement activity in hepatitis / cirrhosis.

**BB63 Elastin**

With fibrillin forms elastic fibres which are strong but can be stretched up to 150% of their relaxed length without breaking; form a network within tissues particularly skin, blood vessel walls and lung tissue; with age thickens, fragments and acquires an affinity for calcium so may also be associated with development of atherosclerosis.

**BB64 Erythropoietin/ EPO**

Hormone produced by kidneys; formed from a plasma protein, stimulates red blood production; increased blood levels in anaemia.

**BB65 Exendin(9-39)**

Reduces glucose levels; competes for the same brain receptors as GLP1 and so blocks the effect of GLP1 and stimulates appetite; has been shown to acutely increase food intake and promote weight gain in long-term rodent studies; influence on type 2 diabetes.

**BB66 Glucagon-Like Peptide 1/ GLP1**

Produced in intestinal endocrine cells; stimulates production of insulin1; inhibits production of glucagon3 and gastric emptying; reduces appetite; lowers blood glucose in people with diabetes; biological activity is arrested by Dipeptidyl Peptidase IV.

**BB67 Glucosamine-6-phosphate**

The form that occurs in the body; "glues" structures together; forms an integral part of cell membranes; influences cell to cell communication; important for joint surfaces, tendons, ligaments, synovial fluid, skin, bone, nails and mucus secretions of the digestive, respiratory and urinary tracts; important in osteoarthritis and cartilage health generally; the supplement glucosamine sulphate may be used when the body is short of this.

**BB68 Glutathione Peroxidase**

Enzyme involved in conversion of hydrogen peroxide within the body; protection against free radical damage; reduces the production of inflammatory prostaglandins and leukotrienes; children with asthma have significantly reduced blood levels; may be involved in schizophrenia; levels reduced if selenium deficiency.

**BB69 Nociceptin/ Orphanin FQ2**

Peptide present in many areas of the CNS; believed to play a role in pain transmission; amplifies pain and enhances harmless stimuli into painful sensations.

**BB70 Nocistatin**

Peptide that counteracts the effect of nociceptin.

**BB71 Orexin B**

Generated when blood sugar levels drop, so acting as a trigger to eat people who over-eat may possibly produce too much orexin; lack of orexin has been linked to narcolepsy (sleep disorder characterized by sudden sleeping).

**BB72 Phosphatidyl-Inositol**

Important component of biological membranes; supervises division of cells and metabolism; in some skin-care products and lipsticks.

**BB73 Superoxide Dismutase/ SOD**

Antioxidant produced naturally in the body; combats the damage to cells caused by the superoxide radical; supplementation of SOD has been shown to exert strong regenerative effects on tissues that have become hardened or fibrotic because of age, disease, or injury; may be anti-ageing.

**BB74 Tumour Necrosis Factor Alpha**

Produced by macrophages, which engulf and destroy bacteria, viruses, and other foreign substances; role in regulating inflammatory and immune responses throughout the body and particularly in relation to some parasites; asthma, eczema, psoriasis, psoriatic arthritis, rheumatoid arthritis, AIDS, multiple sclerosis, cancer; may be involved in septicaemia, and the weight loss associated with parasitic infection or cancer.

**BB75 Ubiquitin/APF-1**

Essential for protein degradation and cell cycling; DNA repair; cellular stress responses; various enzymes attach ubiquitin to body proteins; these enzymes are known as ubiquitin ligases.; when a protein bears many ubiquitin molecules, it is targeted for degradation by the proteasome, a huge enzyme complex; when few ubiquitins are attached, they may serve structural, regulatory, or trafficking functions.

# Body Biochemicals 4 Test Kit

## 25 vials

*The energy patterns of the DNA bases, more hormones involved in weight loss, two enkephalins and chemicals involved in blood clotting.*

### BB76 **Acetyl Coenzyme A**

Synthesized in the mitochondria of all cells and is used to generate ATP in the Krebs cycle; involved in the synthesis of Ach in some nerve cells.

### BB77 **Actin**

In order for muscle to contract myosin and actin must interact; actin-myosin interaction activates actomyosin ATPase which extracts energy from ATP for contraction.

### BB78 **Adenine**

One of the bases of DNA & RNA.

### BB79

Replaced with BB79a as BB79 was an unintentional duplicate of BB28

### BB79a **Calcineurin**

Speeds up the rate at which electrical signals in the brain die away, so affects long-term memory; may have a role in dementia; post-traumatic stress syndrome and heart failure.

### BB80 **Calmodulin/ modulator protein/ (CaM)/ Phosphodiesterase 3':5'- Cyclic Nucleotide Activator**

Calcium-binding protein found within cells; many different biochemical processes known to be regulated by calmodulin, although the interactions of calmodulin with its various target enzymes are only poorly understood; has a regulatory effect on contraction and relaxation of smooth muscles; involved in gene regulation, protein synthesis, inflammation, short term memory, the immune response, viral penetration, and the cell cycle implicating it in AIDs, Alzheimer's, certain cancers and other diseases.

### BB81 **Carbonic Anhydrase**

Present in red blood cells and kidney cells; controls the elimination of carbon dioxide from the body and the pH of urine; facilitates the transfer of carbon dioxide from the tissues to the blood and from the blood to the alveoli (air sacs) of the lungs; involved in production of gastric acid.

### BB82 **Catalase**

The decomposition of hydrogen peroxide<sup>8</sup> into water and oxygen.

### BB83 **Cytosine**

One of the bases of DNA & RNA.

### BB84 **Dipeptidyl Peptidase IV**

Arrests biological activity of GLP1 and Substance P.

### BB85 **Fibrin**

Essential to blood clotting; formed from fibrinogen by the action of thrombin.

### BB86 **Fibrinogen**

A clotting factor in blood plasma that is converted to fibrin; produced by liver and plasma cells; approximately 7% of blood plasma proteins.

### BB87 **Glycogen**

The principal carbohydrate storage material in the body; plays an important role in controlling blood sugar levels.

### BB88 **Glycogen Phosphorylase A**

Involved in converting glycogen to glucose.

### BB89 **Glycogen Synthase**

Involved in converting glucose to glycogen.

### BB90 **Guanine**

One of the basis of DNA & RNA.

### BB91 **Homocysteine**

Formed from the breakdown of methionine; should exist only briefly before being broken down into cys-

thione and then cysteine; if does not happen efficiently then raised blood levels of homocysteine can occur; linked to atherosclerosis; and Alzheimer's disease; homozygous homocysteine (rare condition).

**BB92 Keratin**

Produced in the skin epidermis; helps protect skin and underlying tissues from heat, microbes and chemicals.

**BB93 Leucine Enkephalin**

Produced in the adrenal medulla; inhibits pain impulses by suppressing release of Substance P<sub>2</sub>; increased secretion into the blood stream when stressed; morphine stimulates enkephalin receptors.

**BB94 Methionine Enkephalin**

Produced in the adrenal medulla; sedative effect; inhibits pain impulses by suppressing release of Substance P<sub>2</sub>; increased secretion into the blood stream when stressed in alcohol- and cocaine-pre-ferring mouse strains, methionine enkephalin is lower in the hypothalamus; morphine stimulates enkephalin receptors.

**BB95 Myosin**

In order for muscle to contract, myosin and actin must interact.

**BB96 Prothrombin/Factor II**

Inactive protein synthesized by the liver, released into the blood, and converted to active thrombin in the process of blood clotting.

**BB97 Terminal Transferase**

A DNA polymerase that does not require a primer; catalyses the addition of nucleotides to DNA (involved in cell division).

**BB98 Thrombin**

Active enzyme produced from prothrombin; acts to convert fibrinogen to fibrin.

**BB99 Thymine**

One of the DNA bases.

**BB100 Uracil**

One of the bases of RNA.

## **Body Biochemicals 5 Test Kit** **25 vials**

*The energy patterns of more weight loss hormones, most of the enzymes involved in glycolysis and six prostaglandins.*

**BB101 Aldolase**

Involved in 4th step in process of glycolysis.

**BB102 CART/Cocaine- and Amphetamine Related Transcript**

Modulates the action of leptin<sup>5</sup> and neuropeptide Y<sup>5</sup> and so reduces appetite; cocaine and amphetamines stimulate its production.

**BB103 Elastase**

Pancreas, activated from proelastase by trypsin<sup>4</sup>; turns peptides into proteins.

**BB104 Enolase**

Involved in 9th step in process of glycolysis.

**BB105 Galanin**

Inhibits release of acetylcholine<sup>2</sup> and glutamic acid<sup>5</sup>; decreases excitability of spinal neurons; stimulates the appetite; may be involved in Alzheimer's disease.

**BB106 Ghrelin**

Increases appetite; may be a hormonal link between stomach, hypothalamus and pituitary and so regulate energy balance; regulates growth hormone secretions; may signal to the hypothalamus when an increase in metabolic efficiency is necessary; blood levels are elevated in anorexics and return to normal after partial weight recovery.

**BB107 Glyceraldehyde-3-Phosphate Dehydrogenase**

Involved in 6th step in process of glycolysis.

**BB108 Hexocinase**

Involved in 1st step in process of glycolysis.

**BB109 Melatonin**

Secreted by pineal gland; may inhibit reproductive activities and promote sleep; regulation of body's biological clock.

**BB110 Neuromedin B**

Present in the central nervous system and gastrointestinal tract; binds to corticotropin releasing factor receptors; involved in smooth muscle contraction, blood pressure, blood glucose, body temperature and cell growth; suppresses the appetite.

**BB111 2-Phenylethylamine/ PEA/ Beta-Phenethylamine**

Chemical which plays a critical role in the limbic system known to give a feeling of bliss; 60% of depressed patients have a PEA deficit; a natural ingredient in chocolate; MAOI anti-depressants increase concentrations of this in the brain.

**BB112 Phosphoglucose Isomerase**

Involved in 2nd step in process of glycolysis.

**BB113 Phospho-Fructokinase**

Involved in 3rd step in process of glycolysis.

**BB114 Prostaglandin A1/ PGA1**

Relaxes the muscles in the walls of blood vessels, acting as powerful vasodilators and so lowering blood pressure; may protect against peptic ulcers.

**BB115 Prostaglandin D2/ PGD2**

Stimulates inflammation.

**BB116 Prostaglandin E1/PGE1**

Dilates blood vessels and so reduces blood pressure; seems to be elevated in manic-depressive disorders; used as a treatment for erectile dysfunction in men.

**BB117 Prostaglandin E2/ PGE2**

Promotes platelet adhesiveness; promotes sodium retention; promotes inflammation; widens airways; stimulates contraction of uterus; protects against peptic ulcers; acts on adenylate cyclase to enhance the production of cyclic AMP; used as a treatment for erectile dysfunction in men.

**BB118 Prostaglandin F2/ PGF2**

Stimulates contraction of uterus; narrows airways.

**BB119 Prostaglandin I2/ PGI2**

Reduces platelet stickiness; women who develop pre-eclampsia have low levels of this.

**BB120 Purine**

Used in the process producing proteins; converts the energy produced by the oxidation of food molecules to a form which the cell can use to satisfy its energy needs; involved in nerve conduction and muscle contraction; rids cells of excess nitrogen; protects the cell from cancer-causing agents; increased levels raise the levels of uric acid in the blood and cause gout.

**BB121 Pyruvate Kinase**

Involved in 10th step in process of glycolysis.

**BB122 Serine**

Can be made in human body from glycine; used to make substances such as choline, phospholids, phosphotidylserine; present in all cell membranes ; plays a key role in membrane stability.

**BB123 Triosephosphate Isomerase**

Involved in 5th step in process of glycolysis.

**BB124 Uric Acid**

Waste product of the breakdown of nucleic acid in cells; formed primarily in the liver and excreted by the kidney into the urine; over-production leads to uric acid crystal deposits in the joints (gout); low levels in people with multiple sclerosis.

**BB125 Urocortin**

Inhibits appetite.

# Body Biochemicals 6 Test Kit

## 25 vials

*The 6th of the Body Biochemical Test Kits, containing more hormones, cytokines, including DHEA, Gastrin, Peptide YY, Fibroblast Growth Factors, etc. 25 vials for AK Practitioners, Bioresonance Practitioners, NAET, etc.*

### **BB 126 Amphiregulin/AREG**

A member of the epidermal growth factor family. Interacts with the EGF/TGF-alpha receptor to promote the growth of normal epithelial cells and inhibits the growth of certain aggressive carcinoma cell lines.

### **BB 127 Androstenedione**

A steroid hormone produced in the adrenal glands and the gonads as an intermediate step in the biochemical pathway that produces the testosterone, estrone and estradiol.

### **BB 128 Dehydroepiandrosterone / DHEA**

A steroid hormone; the most abundant circulating steroid in humans, in whom it is produced in the adrenal glands, the gonads, and the brain, where it functions predominantly as a metabolic intermediate in the biosynthesis of the androgen and oestrogen sex steroids.

### **BB 129 Epidermal Growth Factor**

Stimulates cell growth, proliferation, and differentiation. Can be found in platelets, macrophages, urine, saliva, human milk, and plasma.

### **BB 130 Fibroblast Growth Factor 1 /FGF-1**

Growth factors involved in angiogenesis, wound healing, and embryonic development; promotes endothelial cell proliferation and the physical organization of endothelial cells into tube-like structures; stimulates angiogenesis and the proliferation of fibroblasts that give rise to granulation tissue, which fills up a wound space/cavity early in the wound-healing process. Seems to be involved in the regulation of synaptic plasticity and processes attributed to learning and memory, at least in the hippocampus.

### **BB 131 Fibroblast Growth Factor 2 / FGF-2**

Growth factors involved in angiogenesis, wound healing, and embryonic development. Promotes endothelial cell proliferation and the physical organization of endothelial cells into tube-like structures. Stimulate angiogenesis and the proliferation of fibroblasts that give rise to granulation tissue, which fills up a wound space/cavity early in the wound-healing process. Adult neurogenesis within the hippocampus depends greatly on FGF-2. Seems to be involved in the regulation of synaptic plasticity and processes attributed to learning and memory, at least in the hippocampus.

### **BB 132 Fibroblast Growth Factor 10 / FGF-10**

Growth factors involved in angiogenesis, wound healing, and embryonic development.

### **BB 133 Fibroblast Growth Factor 23 / FGF-23**

Main function seems to be regulation of phosphate concentration in plasma. Secreted by osteoblasts and osteoclasts in response to elevated calcitriol. Acts on kidneys, where it decreases the expression of NPT2, a sodium-phosphate cotransporter in the proximal tubule, so decreases the reabsorption and increases excretion of phosphate.

### **BB 134 Gastrin**

A peptide hormone that stimulates secretion of gastric acid (HCl) by the parietal cells of the stomach and aids in gastric motility.

### **BB 135 Granulocyte Colony-Stimulating Factor / G-CSF**

A glycoprotein, growth factor and cytokine produced by a number of different tissues to stimulate the bone marrow to produce granulocytes and stem cells, and then stimulates the bone marrow to release them into the blood. Also stimulates the survival, proliferation, differentiation, and function of neutrophil precursors and mature neutrophils.

### **BB 136 Granulocyte Macrophage Colony-Stimulating Factor / GM-CSF**

A protein secreted by macrophages, T cells, mast cells, NK cells, endothelial cells and fibroblasts. Functions as a white blood cell growth factor. Stimulates stem cells to produce granulocytes (neutrophils, eosinophils, and basophils) and monocytes.

**BB 137 Growth-Hormone Releasing Hormone / Growth-Hormone-Releasing Factor /GRF/ GHRF / Somatoliberin / Somatocrinin**

Stimulates growth hormone secretion; (growth hormone is required for normal postnatal growth, bone growth, regulatory effects on protein, carbohydrate, and lipid metabolism); promotes slow-wave sleep;

**BB 138 Insulin-Like Growth Factor 1 / IGF-1/ Somatomedin C**

A hormone similar in molecular structure to insulin; plays an important role in childhood growth and continues to have anabolic effects in adults.

**BB 139 Insulin-Like Growth Factor 2/ IGF 2**

A hormone similar in molecular structure to insulin; has growth-regulating, insulin-like and mitogenic activities; believed to be a major foetal growth factor.

**BB 140 Interferon-Gamma**

Critical for innate and adaptive immunity against viral and intracellular bacterial infections and for tumor control. An important activator of macrophages. Aberrant IFN- $\gamma$  expression is associated with a number of autoinflammatory and autoimmune diseases.

**BB 141 Lipopolysaccharide / LPS**

Found in the outer membrane of Gram-negative bacteria, act as endotoxins and elicit strong immune responses. Produced by gut bacteria, so source of many inflammatory reactions including autoimmunity.

**BB 142 Neuregulin 1 / NRG1**

Induce the growth and differentiation of epithelial, neuronal, glial, and other types of cells. Essential for the normal development of the nervous system and the heart. Thought to play a role in schizophrenia. Part of the EGF family of proteins.

**BB 143 Neuregulin 2 / NRG2**

Induces the growth and differentiation of epithelial, neuronal, glial, and other types of cells. Part of the EGF family of proteins.

**BB 144 Neuregulin 3 / NRG3**

Linked to a susceptibility to schizophrenia and Hirschsprung's disease. Part of the EGF family of proteins.

**BB 145 Neuregulin 4 / NRG4**

Activates type-1 growth factor receptors to initiate cell-to-cell signaling through tyrosine phosphorylation. Loss of expression of NRG4 is frequently seen in advanced bladder cancer while increased NRG4 expression correlates to better survival.

**BB 146 Peptide YY / PYY / Peptide Tyrosine Tyrosine**

Released by cells in the ileum and colon in response to eating; appears to reduce appetite (by slowing the gastric emptying) ; inhibits gastric motility and increases water and electrolyte absorption in the colon; increases efficiency of digestion and nutrient absorption after a meal; may also suppress pancreatic secretion.

**BB 147 Platelet-Derived Growth Factor / PDGF-R**

Plays a significant role in blood vessel formation (angiogenesis), the growth of blood vessels from already-existing blood vessel tissue. Uncontrolled angiogenesis is a characteristic of cancer.

**BB 148 Pregnenolone**

A steroid the body makes as a precursor to other steroid hormones, such as progesterone, DHEA , mineralocorticoids (which regulate electrolyte balance), corticosteroids (which influence inflammation and metabolism), estrogens, and androgens.

**BB 149 Transforming Growth Factor-Alpha / TGF Alpha**

Seems to play a role in mediation of cell-cell adhesion and in juxtacrine stimulation of adjacent cells. Expression of TGF-alpha is widespread in tumors and transformed cells. TGF-alpha is also expressed in normal tissues during embryogenesis and in adult tissues, including pituitary, brain, keratinocytes and macrophages.

**BB 150 Transforming Growth Factor-Beta / TGF-Beta**

A protein that controls proliferation, cellular differentiation, and other functions in most cells. A type of cytokine which plays a role in immunity, cancer, bronchial asthma, heart disease, diabetes, Marfan syndrome, Loews–Dietz syndrome, Parkinson's disease and AIDS.



# Body Biochemicals 7 Test Kit

## 25 vials

*More body biochemicals including plasmin, plasminogen. HDL, LDL, VLDL, etc.*

### BB 151 Alanine

A non-essential amino acid, high levels linked to high blood pressure. Alterations in the alanine cycle that increase the levels of serum alanine aminotransferase (ALT) is linked to the development of type II diabetes. Good sources in the diet include beans, nuts, seeds, soy, whey, brewer's yeast, brown rice, bran, corn, legumes, whole grains.

### BB 152 Amyloid Beta Peptide / Beta Amyloid

The main component of amyloid plaques (extracellular deposits found in the brains of patients with Alzheimer's disease); similar plaques appear in some variants of Lewy body dementia and in inclusion body myositis (a muscle disease); also form the aggregates that coat cerebral blood vessels in cerebral amyloid angiopathy.

### BB 153 ATP / Adenosine Triphosphate

Transports chemical energy within cells for metabolism; one of the end products of photophosphorylation, cellular respiration, and fermentation and used by enzymes and structural proteins in many cellular processes, including biosynthetic reactions, motility, and cell division.

### BB 154 Catechol-O-Methyl-Transferase/COMT

One of several enzymes that inactivate dopamine, epinephrine, and norepinephrine. Also shortens the biological half-lives of certain neuro-active drugs, like L-DOPA, alpha-methyl DOPA and isoproterenol.

### BB 155 Glutathione Reductase

Plays an important role in protecting haemoglobin, red cell enzymes, and biological cell membranes against oxidative damage by increasing the level of reduced glutathione (GSSGR) in the process of aerobic glycolysis; can act as a scavenger for hydroxyl radicals, singlet oxygen, and various electrophiles.

### BB 156 Hydrogen Peroxide

Trace quantities released from immune cells (e.g. neutrophils and monocytes) as they come into contact with different bacteria or fungi.

### BB 157 Intrinsic Factor Gastric Intrinsic Factor / GIF

Produced by the parietal cells of the stomach; necessary for the absorption of vitamin B12 (cobalamin) later on in the small intestine.

### BB 158 L-Dopa

Made and used as part of the normal biology; the precursor to the neurotransmitters dopamine, norepinephrine and epinephrine. As a drug it is used in the clinical treatment of Parkinson's disease and dopamine-responsive dystonia.

### BB 159 Lipoprotein High-Density / HDL

Enable the transportation of lipids, such as cholesterol and triglycerides, within the water around cells, including the bloodstream. Remove fats, including cholesterol, from cells, including within artery wall atheroma and transport it back to the liver for excretion or re-utilization. Often informally called good cholesterol.

### BB 160 Lipoprotein Lipase

Enzyme produced by many tissues, including adipose tissue, cardiac and skeletal muscle, islets, and macrophages; hydrolyses triglycerides in lipoproteins, such as those found in chylomicrons and very low-density lipoproteins (VLDL), into two free fatty acids and one monoacylglycerol molecule; also involved in promoting the cellular uptake of chylomicron remnants, cholesterol-rich lipoproteins, and free fatty acids; contributes in a pronounced way to normal lipoprotein metabolism and many aspects of metabolism, including energy balance, insulin action, body weight regulation, and atherosclerosis.

### BB 161 Lipoprotein Low-Density / LDL

Enable transport of multiple different fat molecules, as well as cholesterol, within the water around cells and within the water-based bloodstream. Transport cholesterol into the artery wall, retained there by arterial proteoglycans and attract macrophages that engulf the LDL particles and start the formation of plaques; increased levels are associated with atherosclerosis. Often informally called bad cholesterol.

### BB 162 Lipoprotein Very Low-Density / VLDL

Made by the liver; enable fats and cholesterol to move within the water-based solution of the bloodstream.

VLDL is assembled in the liver from triglycerides, cholesterol, and apolipoproteins. VLDL is converted in the bloodstream to low-density lipoprotein.

**BB 163 Motilin**

Hormone produced from endocrine cells of the duodenal mucosa to help regulate motility of the digestive tract. Called “housekeeper of the gut” because it improves peristalsis in the small intestine and clears out the gut to prepare for the next meal.

**BB 164 Nicotinamide Adenine Dinucleotide / NAD**

The coenzyme form of the vitamin niacin; found in all living cells; has a crucial roles in many cellular processes, both as a coenzyme for redox reactions and as a substrate to donate ADP-ribose units; involved in age-associated diseases, including diabetes, cancer and neurodegenerative diseases.

**BB 165 Nitric Oxide**

Serves as a neurotransmitter between nerve cells, part of its general role in redox signalling (helping cells protect themselves, detect damage and then either repair or replace damaged cells). Also of critical importance as a mediator of vasodilation in blood vessels, so playing a key role in renal control of extracellular fluid homeostasis, the regulation of blood flow and blood pressure, and in erection of the penis.

**BB 166 Pancreatic Polypeptide**

Secreted by the pancreas to regulate pancreatic secretion activities (endocrine and exocrine); also has effects on hepatic glycogen levels and gastrointestinal secretions; secretion is stimulated by eating, exercising, and fasting; can inhibit gallbladder contraction; elevated in anorexia nervosa and reduced in conditions associated with increased food intake.

**BB 167 Peroxynitrite / Peroxonitrite**

Produced in the body in inflammation, cardiovascular disease, neurodegeneration, diabetes, and other pathologies.

**BB 168 Plasmin**

Enzyme present in blood that degrades many blood plasma proteins, most notably, fibrin clots; activates collagenases, some mediators of the complement system and weakens the wall of the Graafian follicle (leading to ovulation).

**BB 169 Plasminogen**

The inactive enzyme precursor of plasmin.

**BB 170 Proline**

A non-essential amino acid; involved in tissue repair, collagen formation, arteriosclerosis prevention and blood pressure maintenance.

**BB 171 Quinolinic Acid /2,3-Pyridinedicarboxylic Acid**

A downstream product of the kynurenine pathway which metabolizes the amino acid tryptophan; implicated in mood disorders, schizophrenia, conditions related to neuronal death, amyotrophic lateral sclerosis, Alzheimer’s disease, brain ischemia, HIV associated neurocognitive disorder, Huntington’s disease, Parkinson’s disease and Lyme disease with CNS involvement.

**BB 172 Thrombopoietin / Megakaryocyte Growth And Development Factor**

A glycoprotein hormone produced by the liver and kidney which regulates the production of platelets; stimulates the production and differentiation of megakaryocytes, the bone marrow cells that bud off large numbers of platelets.

**BB 173 Tissue Plasminogen Activator**

A protein involved in the breakdown of blood clots; as an enzyme, it catalyzes the conversion of plasminogen to plasmin. Used in clinical medicine to treat only embolic or thrombotic stroke. Use is contra-indicated in hemorrhagic stroke and head trauma.

**BB 174 Triglycerides**

A blood lipid that help enable the bidirectional transference of adipose fat and blood glucose from the liver. High levels of triglycerides in the bloodstream have been linked to atherosclerosis and, by extension, the risk of heart disease and stroke.

**BB 175 Vasoactive Intestinal Peptide**

Produced in many tissues including the gut, pancreas, and suprachiasmatic nuclei of the hypothalamus in the brain; stimulates contractility in the heart, causes vasodilation, increases breakdown of glucose, lowers arterial blood pressure and relaxes the smooth muscle of trachea, stomach and gall bladder.

# Bowel Nosodes Test Kit

11 vials

*Bowel nosodes are prepared from cultures of non-lactose fermenting flora of the intestinal tract.*

For additional information see:

<https://hpathy.com/materia-medica/bowel-nosodes/>

<https://cleverhthemag.com/2015/06/01/the-bowel-nosodes-of-bach-paterson/>

<http://www.interhomeopathy.org/fr-bowel-nosodes-a-group-of-neglected-remedies>

## Name & Indications:

BN 01	Bacillus No. 7	Paterson	Mental and physical fatigue; old rheumatism.
BN 02	Bacillus No. 10	Paterson	Fair, florid, dark, pale, anxious and active, irritable and depressed; warts and lipomas.
BN 03	Dys. Co.	Bach	Anticipatory nervous anxiety.
BN 04	Faecalis	Bach	Appears to be no specific indications for this.
BN 05	Gaertner	Bach	Malnutrition and malignancy; inability to digest fat; over-active brain.
BN 06	Morgan	Bach	Congestion, vertigo, introspection, depression. Itchy eruptions.
BN 07	Morgan Gaertner	Paterson	Skin and liver conditions, but likely to be more useful where there is evidence of acute inflammatory attack. E.g. colic.
BN 08	Morgan Pure	Paterson	Marked symptom of skin eruption or disturbance of the liver; bilious headache, or actual presence of gallstones.
BN 09	Mutabile	Paterson	Where there is alteration of symptoms, e. g. where skin eruption alternates with asthmatic symptoms; food allergies of all types.
BN 10	Proteus	Bach	Symptoms relative to the central or peripheral nervous systems and symptoms which appear with degree of suddenness and violence.
BN 11	Sycotic Co.	Paterson	Irritability of mind and membranes; anaemic looking.

# Candida Test Kit

## 13 vials

*Although Candida albicans is the main strain that causes problems, some of the other strains are on the increase and can be implicated for some people.*

*Please note this is NOT a home testing kit*

### CA01 **Candida Albicans**

A normal constituent of the human flora. Is a commensal of the skin and the gastrointestinal and genitourinary tracts. It is responsible for the majority of Candida bloodstream infections (candidemia).

### CA02 **Candida Dubliniensis**

Most commonly found from in immuno-compromised individuals, such as AIDS, chemotherapy, or organ transplant patients.

### CA03 **Candida Glabrata / Torulopsis glabrata**

Was considered a relatively nonpathogenic part of the human flora, but now problems from it on increase particularly among immuno-compromised individuals.

### CA04 **Candida Guillermondi**

Sometimes found on human skin; found in infections of the skin in immuno-compromised individuals.

### CA05 **Candida Krusei**

On the increase. Most common in hospital environment. Used in the manufacture of chocolate.

### CA06 **Candida Lusitaniae**

Affects people with other major health problems, e.g. bone marrow transplants and chemotherapy.

### CA07 **Candida Parapsilosis**

Part of the normal flora of mucous membranes of the mouth, gut and vagina. One of the fungi most frequently isolated from the human hands. A significant cause of sepsis and of wound and tissue infections in immuno-compromised patients.

### CA08 **Candida Pseudotropicalis / Candida Kefyr**

A rare cause of candidiasis. Usually associated with superficial cutaneous manifestations rather than systemic disease. It has been isolated from nails and lungs.

### CA09 **Candida Rhodotorula**

Has been found on the skin between the toes.

### CA10 **Candida Rugosa**

Possibly on increase.

### CA11 **Candida Sitophila**

Uncommon infection in humans. Has been found at the sites of conjunctivitis and peritonitis.

### CA12 **Candida Stellatoida**

Sometimes found in the human vaginal tract with or without symptoms of vaginitis.

### CA13 **Candida Tropicalis**

Part of the normal human flora. When flora unbalanced, can get excessive gas, constipation, diarrhoea, indigestion, abdominal pain, and a variety of sudden and intense food sensitivities or allergies.

# Chemical & Inhalents Test Kit

## 39 vials

*The energy patterns of ammonia, bee sting, butyl, carbon tetrachloride, coal tar, creosote, crude oil, diesel fumes, formaldehyde, house dust mite, mosquito bite, perfumes, petrol fumes, phenol, PVC, wasp sting, etc.*

### CI1 **Ammonia**

Household cleaners, disinfectants, deodorants, hair bleaches, permanent wave solutions, rheumatic liniments, used to make fertilisers, plastics and nylon; cigarette smoke.

### CI2 **Bee Sting**

Anaesthetic & Pain Test Kit

### CI3 **Bitumen**

Damp proof courses, flat roofs, rust treatments, sealant, carpet tile backing, pesticide, adhesive.

### CI4 **Brake & Clutch Fluid**

### CI5 **Brush Cleaner with Xylene**

Brush cleaners, damp start products sprayed on car engines; spray paints, adhesives in flooring material. Xylene can cause irritability, tiredness, dizziness, light-headedness and agitation.

### CI6 **Butyl**

Solvent that can cause eye irritation, headache, dizziness and dermatitis.

### CI7 **Carbon Tetrachloride**

Dry cleaning fluid, some old DIY products.

### CI8 **Chlorine Bleach**

Bleach, antiseptics, disinfectants, tap water, swimming pool water, mould inhibitors, bleached papers. Can cause irritation to eyes, throat and lungs.

### CI9 **Coal Tar**

Coal tar derivatives (some food additives, phenol, asphalt, benzene, creosote), eczema and psoriasis treatment creams, shampoo.

### CI10 **Creosote**

Wood preservative, cough mixtures; probably carcinogenic.

### CI11 **Crude Oil**

Many plastics and chemicals are derived from crude oil.

### CI12 **Dental Anaesthetic**

### CI13 **Diesel Fumes**

### CI14 **Formaldehyde/ Formalin**

Cavity wall insulation, printing ink, textile and fabric finishes (minimum iron etc.), chipboard, adhesives, photographic chemicals, preservatives in cosmetics and toiletries, treatments for warts and verrucas, throat lozenges, cleaning products, artificial silk, slow-release fertilisers, vaccines. A skin irritant and a very common allergen.

### CI15 **General Purpose Oil**

### CI16 **House Dust Mite**

Mainly found in bedding, carpets and upholstery. Allergic reactions can cause eczema, asthma.

### CI17 **Kapok**

Cushions, soft toys.

### CI18 **Lanolin**

Cosmetics, toiletries, soap, woolen clothes, some medicinal ointments and creams. A very common allergen.

### CI 19 **Latex**

Protective gloves, contraceptives (condoms, diaphragm and cap), hot water bottles, baby bottle teats, shoes, mattresses, pillows, balloons, rubber bands, elastic and finger stalls.

### CI 20 **Lycra fabrics, elastic, sewing thread**

**CI21 Methylated Spirits**

**CI22 Mixed Nylon clothing, tights and stockings, carpets and furnishings**

**CI23 Mosquito Bite**

**CI24 Moss Killer with Diclorophen**

diclorophen is a moss and algae killer, control of fungi and moulds on walls cramps, diarrhoea, skin and eye irritation

**CI25 Neoprene**

waterproof fabrics, wet suits

**CI26 Paraffin/ Kerosene paraffin heaters, toiletries, hair creams, hand creams, Vaseline, ointment bases**

**CI27 Perfumes and Aftershaves**

**CI28 Petrol Fumes/**

Gas Fumes (USA)

**CI29 Phenol/ carbolic acid fungicides, disinfectants, wood preservatives, synthetic fibres, vaccinations, floor leveling resins (a common allergen)**

**CI30 Polyurethane paint, foamed plastics for insulation, cushions and upholstery, varnish**

**CI31 Polybutylene**

**CI32 Polyvinyl chloride / PVC third most common plastic.**

Typical uses include raincoats, car/automobile interiors, furnishings (as mock leather), food wrappings (becoming less common), plastic bottles for drinks and personal care products, coatings for paper, shoe soles, plastic pipes and building materials. In hospitals also used for catheters, blood bags and tubing.

**CI33 Solid Fuel Fumes**

**CI34 Stain Removers**

**CI35 Turpentine**

Cosmetics, polishes, varnishes, thinners, pine scented products, indigestion mixtures, irritant skin applications (rubefacient) CNS damage, irritation of skin and mucus membranes

**CI36 Wasp Sting / Yellow Jacket**

**CI37 Mixed Vial of 31 Inhalant**

and Contact Items contains: acrylic, aerosol propellant, chalk, calor gas fumes, mixed carpets, cat hair, cigarette smoke, tobacco, coal tar, crude oil, diesel, diesel fumes, dog hair, ethanol, formaldehyde, granite, mixed grasses, house dust, house dust mite, mixed moss, mixed lichens, nickel, north sea gas, petrol fumes, feathers, mixed plastics, sheep's wool, solid fuel fumes, mixed washing powders

**CI38 Colophony**

A pine resin found in paper, cosmetics, varnishes, paint, polishes, fly papers, adhesive tapes, epilating waxes, solder flux, etc. . this is often included in medical tests for allergy

**CI39 Triphenyl Phosphate**

A flame retardant added to many plastics such as TV's and computer monitors; when the appliance heats up as it does in use small amounts of this chemical vapourize into the air



# Cytokine & Immune Test Kit

40 vials

Developed in collaboration with Dr Wally Schmitt, contains cytokines, including fibroblast growth factors, immunoglobulins, interleukins, etc.

***NOTE: Do not buy the Interleukin Kit or the Immunoglobulin Kit if buying this kit, as the vials from these kits are included in this one.***

## **CY 01 Amphiregulin/AREG**

A member of the epidermal growth factor family. Interacts with the EGF/TGF- $\alpha$  receptor to promote the growth of normal epithelial cells and inhibits the growth of certain aggressive carcinoma cell lines.

## **CY 02 Epidermal Growth Factor**

Stimulates cell growth, proliferation, and differentiation. Can be found in platelets, macrophages, urine, saliva, human milk, and plasma.

## **CY 03 Fibroblast Growth Factor 1 /FGF-1**

Growth factors involved in angiogenesis, wound healing, and embryonic development. Promotes endothelial cell proliferation and the physical organization of endothelial cells into tube-like structures. Stimulate angiogenesis and the proliferation of fibroblasts that give rise to granulation tissue, which fills up a wound space/cavity early in the wound-healing process. Seems to be involved in the regulation of synaptic plasticity and processes attributed to learning and memory, at least in the hippocampus.

## **CY 04 Fibroblast Growth Factor 2 / FGF-2**

Growth factors involved in angiogenesis, wound healing, and embryonic development. Promotes endothelial cell proliferation and the physical organization of endothelial cells into tube-like structures. Stimulate angiogenesis and the proliferation of fibroblasts that give rise to granulation tissue, which fills up a wound space/cavity early in the wound-healing process. Adult neurogenesis within the hippocampus depends greatly on FGF-2. Seems to be involved in the regulation of synaptic plasticity and processes attributed to learning and memory, at least in the hippocampus.

## **CY 05 Fibroblast Growth Factor 10 / FGF-10**

Growth factors involved in angiogenesis, wound healing, and embryonic development.

## **CY 06 Fibroblast Growth Factor 23 / FGF-23**

Main function seems to be regulation of phosphate concentration in plasma. Secreted by osteoblasts and osteoclasts in response to elevated calcitriol. Acts on kidneys, where it decreases the expression of NPT2, a sodium-phosphate cotransporter in the proximal tubule, so decreases the reabsorption and increases excretion of phosphate.

## **CY 07 Granulocyte Colony-Stimulating Factor / G-CSF**

A glycoprotein, growth factor and cytokine produced by a number of different tissues to stimulate the bone marrow to produce granulocytes and stem cells, and then stimulates the bone marrow to release them into the blood. Also stimulates the survival, proliferation, differentiation, and function of neutrophil precursors and mature neutrophils.

## **CY 08 Granulocyte Macrophage Colony-Stimulating Factor/ GM-CSF**

A protein secreted by macrophages, T cells, mast cells, NK cells, endothelial cells and fibroblasts. Functions as a white blood cell growth factor. Stimulates stem cells to produce granulocytes (neutrophils, eosinophils, and basophils) and monocytes.

## **CY 09 IgA**

Found in mucosal areas, such as the gut, respiratory tract and urogenital tract, and prevents colonization by pathogens. Also found in saliva, tears, and breast milk.

## **CY 10 IgD**

Functions mainly as an antigen receptor on B cells that have not been exposed to antigens. Has been shown to activate basophils and mast cells to produce antimicrobial factors.

## **CY 11 IgE**

Binds to allergens and triggers histamine release from mast cells and basophils, and is involved in allergy. Also protects against parasitic worms.

## **CY 12 IgG**

Provides the majority of antibody-based immunity against invading pathogens. The only antibody capable of crossing the placenta to give passive immunity to the foetus.

### **CY 13 IgM**

Eliminates pathogens in the early stages of B cell mediated (humoral) immunity before there is sufficient IgG.

### **CY 14 Interferon-Alpha**

Produced by leukocytes. They are mainly involved in innate immune response against viral infection.

### **CY 15 Interferon-Gamma**

Critical for innate and adaptive immunity against viral and intracellular bacterial infections and for tumor control. An important activator of macrophages. Aberrant IFN- $\gamma$  expression is associated with a number of auto-inflammatory and auto-immune diseases.

### **CY 16 Interleukin-1**

Stimulates the growth and action of immune system cells that fight disease, by participating in the regulation of immune responses, inflammatory reactions, and hematopoiesis (development of mature blood cells). Also helps leukocytes pass through blood vessel walls to sites of infection and causes fever by affecting areas of the brain that control body temperature.

### **CY 17 Interleukin-2**

Induces the proliferation of responsive T-cells, and acts on some B-cells, via receptor-specific binding, as a growth factor and antibody production stimulant. Linked to pruritus (itching).

### **CY 18 Interleukin-3**

Regulates blood-cell production by controlling the production, differentiation and function of granulocytes and macrophages, so enhances the immune system's ability to fight tumor cells.

### **CY 19 Interleukin-4**

Enhances the immune system's ability to fight tumor cells; has an important function in B-cell responses. A key regulator in humoral and adaptive immunity.

### **CY 20 Interleukin-5**

Regulates eosinophil growth and activation, and thus plays an important role in diseases associated with increased levels of eosinophils, including asthma and allergic rhinitis.

### **CY 21 Interleukin-6**

A biomarker for inflammation and chronic disease. Plays an essential role in the final differentiation of B-cells into IG-secreting cells, as well as inducing myeloma/plasmacytoma growth, nerve cell differentiation, and, in hepatocytes, acute-phase reactants. Involved in diabetes, atherosclerosis, depression Alzheimer's disease, systemic lupus erythematosus, prostate cancer and rheumatoid arthritis.

### **CY 22 Interleukin-7**

Enhances the immune system's ability to fight tumor cells. IL-7 is made by cells in the bone marrow, and can stimulate T cells and B cells to grow. Promotes acute lymphoblastic leukemia, T cell lymphoma. Elevated levels of IL-7 have also been detected in the plasma of HIV-infected patients.

### **CY 23 Interleukin-8**

Induces chemotaxis in target cells, primarily neutrophils but also other granulocytes, causing them to migrate toward the site of infection. Also induces phagocytosis once they have arrived. Known to be a potent promoter of angiogenesis (growth of new blood vessels from existing ones, and necessary for tumours to grow). Often associated with inflammation (e.g. in gingivitis and psoriasis). If a pregnant mother has high levels, there is an increased risk of schizophrenia in her offspring. High levels have also been shown to reduce the likelihood of positive responses to antipsychotic medication in schizophrenia.

### **CY 24 Interleukin-9**

Serves as a growth factor for early lymphoid cells of both B- and T-cell lineages. supports IL-2 independent and IL-4 independent growth of helper T-cells.

### **CY 25 Interleukin-10**

Inhibits the synthesis of a number of cytokines, including IFN-gamma, IL-2, IL-3, TNF, and GM-CSF produced by activated macrophages and by helper T cells. Mice studies suggest it is an essential immuno-regulator in the intestinal tract; may be relevant in Crohn's disease.

### **CY 26 Interleukin-11**

Stimulates megakaryocytopoiesis, resulting in increased production of platelets, as well as activating osteoclasts, inhibiting epithelial cell proliferation and apoptosis, and inhibiting macrophage mediator production.

May reduce toxicity to the gastrointestinal system resulting from cancer therapy.

### **CY 27 Interleukin-12**

Enhances the ability of the immune system to kill tumor cells and may interfere with blood flow to the tumor. Involved in the stimulation and maintenance of Th1 cellular immune responses, including the normal host defence against various intracellular pathogens, such as Leishmania, Toxoplasma, measles virus, and HIV. Also has an important role in pathological Th1 responses, such as in inflammatory bowel disease and multiple sclerosis.

Administration of IL-12 to people suffering from autoimmune diseases was shown to worsen the autoimmune phenomena. This is believed to be due to its key role in induction of Th1 immune responses.

### **CY 28 Interleukin-17A**

A cytokine that acts as a potent mediator in delayed-type reactions by increasing chemokine production in various tissues to recruit monocytes and neutrophils to the site of inflammation, similar to Interferon gamma. Has been shown to have a pro-inflammatory role in asthma.

### **CY 29 Interleukin-23**

Potently enhances the expansion of T helper type 17 cells, so involved in many of the inflammatory autoimmune responses.

### **CY 30 Lipopolysaccharide / LPS**

Found in the outer membrane of Gram-negative bacteria, act as endotoxins and elicit strong immune responses. Produced by gut bacteria, so source of many inflammatory reactions including autoimmunity.

### **CY 31 Neuregulin 1 / NRG1**

Induce the growth and differentiation of epithelial, neuronal, glial, and other types of cells. Essential for the normal development of the nervous system and the heart. Thought to play a role in schizophrenia. Part of the EGF family of proteins.

### **CY 32 Neuregulin 2 / NRG2**

Induces the growth and differentiation of epithelial, neuronal, glial, and other types of cells. Part of the EGF family of proteins.

### **CY 33 Neuregulin 3 / NRG3**

Linked to a susceptibility to schizophrenia and Hirschsprung's disease. Part of the EGF family of proteins.

### **CY 34 Neuregulin 4 / NRG4**

Activates type-1 growth factor receptors to initiate cell-to-cell signaling through tyrosine phosphorylation. Loss of expression of NRG4 is frequently seen in advanced bladder cancer while increased NRG4 expression correlates to better survival.

### **CY 35 Platelet-Derived Growth Factor / PDGF-R**

Plays a significant role in blood vessel formation (angiogenesis), the growth of blood vessels from already-existing blood vessel tissue. Uncontrolled angiogenesis is a characteristic of cancer.

### **CY 36 Transforming Growth Factor-Alpha / TGF Alpha**

Seems to play a role in mediation of cell-cell adhesion and in juxtacrine stimulation of adjacent cells. Expression of TGF-alpha is widespread in tumors and transformed cells. TGF-alpha is also expressed in normal tissues during embryogenesis and in adult tissues, including pituitary, brain, keratinocytes and macrophages.

### **CY 37 Transforming Growth Factor-Beta / TGF-Beta**

A protein that controls proliferation, cellular differentiation, and other functions in most cells. A type of cytokine which plays a role in immunity, cancer, bronchial asthma, heart disease, diabetes, Marfan syndrome, Loeys–Dietz syndrome, Parkinson's disease and AIDS. May also be involved in allergic reactions.

### **CY 38 Tumor Necrosis Factor-Alpha**

Produced by macrophages, which engulf and destroy bacteria, viruses, and other foreign substances; role in regulating inflammatory and immune responses throughout the body and particularly in relation to some parasites. Implicated in arthritis, rheumatoid arthritis, AIDS, multiple sclerosis, cancer; may be involved in septicemia, and the weight loss associated with parasitic infection or cancer.

### **CY 39 Combined IL2 plus TGF-Beta**

Screening for T Regulatory cell issues; helps direct T Regulatory synthesis.

### **CY 40 Combined IL23 plus TGF-Beta**

Screening for Autoimmune issues.

# Cytokine & Immune Test Kit 2

## 13 vials

*These are additional cytokines and immune regulating substances based on newer findings related to immune assessment.*

### NOTE:

1. The cost of this kit reflects the difficulty of obtaining high-quality starter material.
2. As with Kit ONE, this kit has been developed in collaboration with Dr Wally Schmitt

#### **CY 41 Interleukin-1 Alpha / Hematopoietin 1**

Produced mainly by activated macrophages, as well as neutrophils, epithelial cells, and endothelial cells; possesses metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses; on the pathway that activates tumour necrosis factor-alpha.

#### **CY 42 Interleukin-1 Beta / Leukocytic Pyrogen/ Leukocytic Endogenous Mediator/ Mononuclear Cell Factor/ Lymphocyte Activating Factor**

Key mediator of the inflammatory response; essential for the host-response and resistance to pathogen; also exacerbates damage during chronic disease and acute tissue injury.

#### **CY 43 Interleukin-17F**

May be implicated in asthma and autoimmune diseases including rheumatoid arthritis, multiple sclerosis and inflammatory bowel diseases.

#### **CY 44 Interleukin-18 / Interferon-Gamma Inducing Factor**

Produced by macrophages and other cells; important role in the innate immune response; able to induce severe inflammatory reactions, which suggests its role in certain inflammatory disorders including adenomyosis and Hashimoto's thyroiditis; has also been found to increase the Alzheimer's disease-associated amyloid-beta production in human neuron cells; also a role in age-related macular degeneration.

#### **CY 45 Interleukin-21**

Has potent regulatory effects on cells of the immune system, including natural killer cells and cytotoxic T cells that can destroy virally infected or cancerous cells; may have a role in controlling hyper-sensitive allergic responses.

#### **CY 46 Interleukin-22**

Initiates innate immune responses against bacterial pathogens especially in epithelial cells such as respiratory and gut epithelial cells; probably plays a role in the coordinated response of both adaptive innate immune systems, auto-immunity and tissue regeneration; can contribute to immune disease through the stimulation of inflammatory responses.

#### **CY 47 Interleukin-24 / Melanoma Differentiation-Associated 7**

Mainly released by activated monocytes, macrophages and T helper 2; performs important roles in wound healing, arthritis, psoriasis and cancer.

#### **CY 48 Interleukin-25 (also known as Interleukin-17E)**

Induces the production of other cytokines, including Interleukin-4, Interleukin-5 and Interleukin-13 in multiple tissues, which stimulate the expansion of eosinophils; helps to control immunity of the gut; has been implicated in chronic inflammation of the gastrointestinal tract; potent anti-tumour activity including in melanoma, breast, lung, colon, and pancreatic cancers.

#### **CY 49 TSLP (Thymic Stromal Lymphopoietin)**

Produced mainly by non-hematopoietic cells such as fibroblasts, epithelial cells and different types of stromal or stromal-like cells in regions where TSLP activity is required; plays an important role in the maturation of T cell populations through activation of antigen presenting cells; linked to many disease states including asthma, inflammatory arthritis, atopic dermatitis, eczema, eosinophilic esophagitis and other allergic states.

#### **CY 50 NFkB p50**

Implicated in cell proliferation and differentiation, inflammatory and immune response, cell survival and apoptosis, cellular stress reactions and the development of tumours.

#### **CY 51 NFkB p65 / RelA**

Plays a crucial role in inflammatory and immune responses.

#### **CY 52 HIF-1 $\alpha$ N-terminal activation domain (530-698)**

Considered as the master transcriptional regulator of cellular and developmental response to hypoxia (oxygen deficiency in cells); stimulates tumour growth and metastases.

#### **CY 53 STAT5 / Signal Transducer And Activator Of Transcription 5, His tagged**

Plays a major role in TH2 expression and Regulatory T cell expression; involved in cytosolic signalling and in mediating the expression of specific genes; closely connected to a wide range of human cancers.

# Dental Test Kit

## 50 vials

*The energy patterns of amalgam, glues, resins, filling & crown material, three local anaesthetics, a periodontal nosode, etc.*

**The three dental anaesthetics in this kit are also included in the Anaesthetic & Pain Test Kit**

- DT1 Amalgam: contains mercury, copper, tin, silver and zinc
- DT2 Apexit root filling sealer
- DT3 Bite registration
- DT4 Carboxylate liquid
- DT5 Carboxylate powder
- DT6 Cavalite cavity lining
- DT7 Coltosol temporary filling
- DT8 Composite filling material
- DT9 Core material: for crowns
- DT10 Cresophene root canal antiseptic
- DT11 Crown impression putty
- DT12 Dyract compound filling
- DT13 Fissure sealant -Biz GMA
- DT14 Fluoride varnish
- DT15 Fuji II LC filling material
- DT16 Glass Ionomer cement for crowns
- DT17 I.R.M. temporary filling
- DT18 Kalzinol temporary filling
- DT19 Ledermix cement: steroid and antibiotic
- DT20 Lining material for fillings
- DT21 Local anaesthetic: citanest with octapressin
- DT22 Local anaesthetic: lignospan with adrenalin
- DT23 Local anaesthetic: scandonest 3% plain
- DT24 Microprime cavity lining
- DT25 Mouth wash tablet
- DT26 Orange oil
- DT27 Periodontal nosode: contains bacteria, blood, plaque and toxins from people with gingivitis and periodontal disease
- DT28 Polishing paste
- DT29 Polishing paste: Minerva
- DT30 Prime 'n' bond dentine bonding agent
- DT31 Root filling material
- DT32 Surface anaesthetic
- DT33 Syntac dentine bonding agent
- DT34 Temporary cement for fittings
- DT35 Temporary dressing material
- DT36 Tubliseal root filling sealer
- DT37 Zinc oxide liquid for resin
- DT38 Zinc phosphate cement for crowns
- DT39 GC Fuji Bond LC: a commonly used dental bonding material
- DT40 GC Fuji IX GP: a composite resin used in place of amalgam
- DT41 Tetric Cream: a composite resin used in place of amalgam
- DT42 Belle Glass: used for inlays, onlays and crowns
- DT43 Cercon: core material for crowns and bridges
- DT44 Cercon S: porcelain that goes on top of DT 42
- DT45 Cerpress: ceramic crown material without metal, also used in inlays
- DT46 Duceram Plus: porcelain for crowns
- DT47 Herculite: filling material which is very strong and used for back teeth
- DT48 Maxi Bond Metal: precious metal alloy which goes under porcelain crowns
- DT49 Presciano: crown material, contains gold but no other metals
- DT50 Solo Bond: adhesive for fillings

# Digestive Enzyme Test Kit

## 16 vials

*The energy patterns of carboxypeptidase, enterokinase, lactase, lipase, lysozyme, maltase, pepsinogen, pepsin, peptidase, amylase, sucrase, trypsin, etc.*

An enzyme: "A substance that affects the speed of chemical changes; an organic catalyst, usually a protein"

Gerard J Tortora Introduction To The Human Body

There are more enzymes in Body Biochemical test kits.

### DE1 Carboxypeptidase

Function: peptides into other peptides and amino acids (protein digestion)

### DE2 Chymotrypsin

Function: protein into peptides (protein digestion)

### DE3 Deoxyribonuclease

Function: converts deoxyribonucleic acid nucleotides(DNA) into pentoses and nitrogenous bases.

### DE4 Enterokinase

Function: converts inactive trypsinogen into active trypsin in small intestine (protein digestion).

### DE5 Galactosidase/ Lactase

Function: converts lactose into glucose and galactose.

### DE6 Lipase

Function: converts fat into fatty acids and glycerol (fat digestion).

### DE7 Lysozyme

Function: destroys bacteria and so helps prevent tooth decay; works to limit the growth of the bacteria that cause infections and diarrhoea, and encourage the growth of good bacteria.

### DE8 Maltase

Function: converts maltose into glucose.

### DE9 Pepsinogen

Function: converted by hydrochloric acid into pepsin (protein digestion).

### DE10 Pepsin

Function: converts proteins into peptides (protein digestion).

### DE11 Peptidase

Function: peptides into amino acids (protein digestion).

### DE12 Rennin

Function: milk protein into casein which allows pepsin to act on it.

### DE13 Ribonuclease

Function: converts ribonucleic acid (RNA) into pentoses and nitrogenous bases.

### DE14 Salivary Amylase (Ptyalin)

Function: polysaccharides into maltose (disaccharide) (carbohydrate digestion).

### DE15 Sucrase

Function: sucrose into glucose and fructose.

### DE16 Trypsin

Function: protein into peptides; activates procarboxypeptidase into carboxypeptidase (protein digestion).



## **Drinks Alcoholic A Test Kit**

### **26 vials**

*The energy patterns of beer, lager, cider, brandy, gin, whisky, whiskey, rum, wines, sherry, etc.*

- DAA1 Bacardi White Rum
- DAA2 Beer
- DAA3 Beer & Lager, alcohol free
- DAA4 Beer, wheat
- DAA5 Benedictine
- DAA6 Bourbon
- DAA7 Brandy
- DAA8 Campari
- DAA9 Champagne
- DAA10 Cider
- DAA11 Cointreau
- DAA12 Gin
- DAA13 Grand Marnier
- DAA14 Lager
- DAA15 Rum
- DAA16 Sherry
- DAA17 Southern Comfort
- DAA18 Tia Maria
- DAA19 Vodka
- DAA20 Whiskey, American
- DAA21 Whiskey, Canadian
- DAA22 Whiskey, Irish
- DAA23 Whisky, Scotch
- DAA24 Wine, Red
- DAA25 Wine, Rose
- DAA26 Wine, White

## **Drinks Alcoholic B Test Kit**

### **21 vials**

*The energy patterns of absinthe, advocaat, calvados, drambuie, grappa, ouzo, sake, vermouth, etc.*

- DAB27 Absinthe
- DAB28 Advocaat
- DAB29 Amaretto
- DAB30 Baileys Irish Cream
- DAB31 Calvados
- DAB32 Crème de Cassis
- DAB33 Crème de Menthe
- DAB34 Curaco, blue
- DAB35 Drambuie
- DAB36 Grappa
- DAB37 Malibu
- DAB38 Ouzo
- DAB39 Pernod
- DAB40 Pimm's No 1
- DAB41 Port
- DAB42 Sake
- DAB43 Sambuca
- DAB44 Schnapps, Cinnamon
- DAB45 Tequila
- DAB46 Underberg
- DAB47 Vermouth

# Earth Energies Test Kit

## 7 vials

*Balance, comfort, energy and realism, inner wisdom, need, pain and space based on the energies of place, time, weather and mood developed by Jane Thurnell-Read.*

**This is a test kit; ESSENCE dispensing bottles are available upon enquiry.**

### EE1 Balance

For the times when we need more balance in our lives; when we find our energies easily disturbed and drained by other people and by our environment. Over-sensitivity, fragility and moodiness could indicate a need for this remedy.

*Collected from a rock protruding out into the rushing stream which runs through the magical Trevaylor Woods. It was a damp and misty day in winter with water dripping from the leaves, ferns and mosses which grew everywhere in great profusion.*

### EE2 Comfort

For times when energy and a willingness to persist are hard to find. It brings a feeling of gentle warmth into our lives. Feeling lost, vulnerable, defenseless and abandoned could indicate a need for this remedy.

*Collected at Godrevey, standing on a cliff overlooking the sea. The cliffs were carpeted with blue and yellow flowers. Although it was early June it was cold and overcast, but the underside of the lower clouds shone with a promise of better things to come. The sea seemed timeless as the waves broke on the shore. It was early evening and there were still people about, but they seemed frozen in their activity: two men fishing off one of the rocks, surfers in the sea and couples sitting in their cars and gazing into the distance.*

### EE3 Energy & Realism

Gives energy and stamina. It helps to bring realism to our activities, so that tasks can be started and accomplished in a balanced manner. Both obsessive and unfocused behaviour become less extreme. Feeling frantic and indecisive could indicate a need for this remedy.

*Collected by perching on a hump of granite, partly surrounded by spring water emerging from rock-strewn moorland between Bosigran Cliffs and the towering Carn Calver. This was collected on the same day as "Need", when the earlier bright skies had clouded over, giving the wind even more bite.*

### EE4 Inner Wisdom

For times when we are lacking discernment and discipline in our lives. We may feel that life is chaotic and uncertain, even while we present an air of power, wisdom and competence to others. The inner life does not correspond with the outer world's perception. Often our energy levels will appear to others to be high, but this mirage is maintained at great cost to ourselves.

*Collected from a wide fissure in a massive rock outcrop on the north coast of Cornwall between Zennor and Morvah. It was a cold, bright day. From this place high on the cliffs, the long Atlantic swells could be seen and heard breaking over the rocks below, and gulls soared over the cliffs.*

### EE5 Need

Helping us to distinguish between needs and wants; it gives the quiet security that our needs will be met. Feelings of jealousy, frustration, disappointment, insecurity, fearfulness and an inability to settle and be still could indicate a need for this remedy.

*Collected from a partly ruinous stone circle on Bosporthenis Moor to the west of Mulfra Hill. It is thought by some to be the remains of a hut circle rather than a true stone circle, but has a great feeling of "rightness". The bright sunshine failed to warm the bitter March wind blasting across the moor.*

### EE6 Pain

For pain, bewilderment and a sense of isolation, when even feeling these emotions seems to demand too much energy. Feelings of weakness and helplessness could indicate a need for this remedy.

*Collected from the seaward end of the Cot Valley. The valley is steep sided and rocky, opening to the sea between high cliffs where the stream runs into a small cove famed for its smoothly rounded boulders. On a day of seemingly interminable rain, with the land shrouded in mist, when we arrived to collect this energy the sky lightened and rain stopped. I had established several days before that the new essence would be called "Pain" and, as I climbed up towards the site, I was feeling it, having squashed my toe under a door the previous day. The place I wanted turned out to be a craggy point overlooking the Brisons Rock, where the swell heaved and broke fitfully.*

### EE7 Space

For times when we need physical, emotional, mental or spiritual space. When things press in on us so that we cannot think clearly or see our way forward, this essence helps to create the possibility for much needed change. It helps us to find vision and continuity within our roots. Feeling overwhelmed or inadequate could indicate a need for this remedy.

*This essence was collected from high on the sides of Carn Calver. A strong wind blustered off the wide Atlantic to the west and open moorland stretched to distant carns on the other sides. The area was strewn with lumps of granite tumbled from the summit like some giant's toy building blocks. A great weather-sculpted slab of rock provided the focus of the energy.*

# Electromagnetic Test Kit

## 25 vials

Electrical and electro-magnetic frequencies, including mobile phones, television emissions, high voltage electricity, ELFs, etc.

This kit was updated early 2019 to include vials 15 to 25  
If you have the earlier EMF kit of 14 vials, you can buy the 11 new vials.

### **EM 01 Computer Monitor / Visual Display Unit Emissions**

### **EM 02 Electricity**

### **EM 03 Electricity High Voltage**

The way electricity is transported from power stations to sub-stations near populations. This reduces the amount of energy lost in long-distance transmission.

### **EM 04 Electro-Magnetic Field**

The field can be viewed as the combination of an electric field and a magnetic field. The electric field is produced by stationary charges, and the magnetic field by moving charges (currents); these two are often described as the sources of the field. Any device connected to an electrical outlet, even if the device is not switched on, will have an associated electric field.

### **EM 05 Extremely Low Frequency Radiation (ELF)**

ELF fields are defined as those having frequencies up to 300 Hz. Emitted by power lines, electrical wiring and common appliances (e.g. electric blankets, televisions, hair-dryers, computers, etc.). Naturally occurring ELF fields are associated with atmospheric processes such as ionospheric currents, thunderstorms and lightning.

### **EM 06 Fluorescent Light**

### **EM 07 Microwave 750 MHz**

Used for telecommunications and heating food. Able to pass through many things including human body.

### **EM 08 Mobile Phone 900 MHz**

### **EM 09 Mobile Phone 1200 MHz**

### **EM 10 Mobile Phone 1800 MHz**

### **EM 11 Mobile Phone Mast G3**

### **EM 12 Satellite Television Radio Waves (UK)**

Radio waves, despite their name, are used for television transmissions.

### **EM 13 Tetra Mast Radiation**

Terrestrial Trunked Radio (formerly known as Trans-European Trunked Radio). TETRA was specifically designed for use by government agencies, emergency services, (police forces, fire departments, ambulance) for public safety networks, rail transportation staff for train radios, transport services and the military. Used by countries in Western Europe, Eastern Europe, Middle East, Africa, Asia Pacific, Caribbean and Latin America.

### **EM 14 Television Emissions**

### **EM 15 Broadband Radiation**

### **EM 16 Cordless (DECT) Phone Radiation**

### **EM 17 Gamma Rays**

### **EM 18 Halogen Light**

### **EM 19 Laser Beam (2940 nm)**

### **EM 20 LED Light (White)**

### **EM 21 Ultra Violet Light**

### **EM 22 Ultrasound**

### **EM 23 Visible Light Spectrum / Full Colour Rainbow**

### **EM 24 Wifi Radiation**

### **EM 25 X-Rays**

# Elements Test Kit

## 84 vials

*The energy patterns of 84 elements in the periodic table.*

*NOTE: This kit includes all vials in the Common Metals test kit. If one already has this kit you can purchase a 'Partial Elements' kit to make up the difference.*

### Aluminium

**Dietary Sources:** In some food additives. In food cooked in aluminium pans or stored in aluminium foil.

**Non-Dietary Sources:** Cigarette smoke, fireworks, table salt & baking powder; aluminium cans; antacids; bleached flour; mains water treatment (aluminium sulfate); some food additives; deodorants; acid rain leaches aluminium out of the soil and into the ground water.

**Possible Toxicity Signs:** Contact dermatitis; skeletal demineralization; slow learning; interference with calcium and phosphorus metabolism, neurofibrillary tangles in the brain; possibly linked to Alzheimer's disease.

### Americum

**Non-Dietary Sources:** Concentrated in the areas used for the atmospheric nuclear weapons tests conducted between 1945 and 1980, as well as at the sites of nuclear incidents, such as the Chernobyl disaster.

### Antimony

**Non-Dietary Sources:** Fireworks, fire retardants; used as an alloy with lead and tin; in solders; compounds used in matches.

### Argon

**Non-Dietary Sources:** Constitutes 0.934% by volume and 1.288% by mass of the Earth's atmosphere here.

### Arsenic

**Dietary Sources:** High levels may be found in rice, as a result of water used in growing the crop, being contaminated with arsenic from arsenic-based-pesticides even though use may have been stopped many years ago).

**Non-Dietary Sources:** Cigarette smoke, wood preservative; pesticide; leather, termite treated lumber, rat poisoning, pesticides, herbicides, pigments. Drinking water in areas where there are arsenic deposits. (More than 140 million people worldwide and 4 million Americans chronically ingest arsenic in their drinking water).

**Possible Toxicity Signs:** Edema of face and eyelids; generalised itching; sore mouth; inflammation of the eyes and nasal membranes; loss of appetite; nausea; vomiting; diarrhoea; dry skin; loss of hair and nails; may reduce intelligence in children. There are also well-documented risks of cancer, heart disease, and reduced lung function; may lead to stem cell dysfunction that impairs muscle healing and regeneration

### Barium

**Non-Dietary Sources:** Fireworks, medical contrast media, paper products, jet fuel, pigments.

**Possible Toxicity Signs:** Vomiting; colic; diarrhoea; slow irregular pulse; high blood pressure; convulsive tremors; muscular paralysis; a neuro-toxin, liver degeneration, cardiac, renal and respiratory damage.

### Beryllium

**Non-Dietary Sources:** Light structural material; beryllium oxide is used in ceramics, naturally found in tobacco; some dental alloys.

**Possible Toxicity Signs:** Reduces stores of magnesium; reduces organ function; shortness of breath; coughing; lung inflammation; tinnitus.

### Bismuth

**Non-Dietary Sources:** Used in cosmetics, pigments, and a few pharmaceuticals.

**Possible Toxicity Signs:** Deterioration of mental ability; confusion; tremor; impaired co-ordination.

### Boron

**Non-Dietary Sources:** Fiberglass (insulation), polymers, ceramics, fertilizer, insecticides, laundry detergent.

**Possible Deficiency Signs:** Arthritis, allergies, weak muscles, low testosterone, brain health.

**Possible Toxicity Signs:** Reproductive infertility, eye, nose, and throat irritation.

### Bromine

**Non-Dietary Sources:** Flame retardants; some epilepsy drugs; used in production of some fizzy drinks (soda) commercial bread making.

**Possible Deficiency Signs:** A necessary cofactor in the biosynthesis of collagen IV.

**Possible Toxicity Signs:** Fatigue; weakness; irritability; disturbed sleep; slow mental processes; poor memory.

### Cadmium

**Non-Dietary Sources:** Cigarette smoke, e-cigarette vapour, galvanised iron; pesticides; plastics; fertilisers; tyres; plating; component in alloys and solders; PVC stabiliser, pigments, paints, pottery. Cadmium from industrial waste can leach back into soil and water and isn't degraded and so enters the food chain.

**Possible Toxicity Signs:** Disrupts the transport of the essential metals manganese and zinc into and out of cells; anaemia; kidney damage; probably carcinogenic; high blood pressure; lung damage;

atherosclerosis; leg pain in children & adults; arthritis; Alzheimer's disease.

### **Caesium / Cesium**

**Non-Dietary Sources:** A relatively rare element estimated to average 3 parts per million in the Earth's crust.

**Possible Toxicity Signs:** Hypokalemia, arrhythmia, and acute cardiac arrest (from higher doses than normally encountered).

### **Calcium**

**Dietary Sources:** Dairy products, eggs, canned fish with bones (salmon, sardines), green leafy vegetables, nuts, seeds, tofu, thyme, oregano, dill, cinnamon.

**Non-Dietary Sources:** Preparation of other metals; calcium oxide important in chemical industry; present in hard water; fireworks; used to reduce the radar signature of exhaust plumes in the SR-71 Blackbird military aircraft.

**Possible Deficiency Signs:** Reduction in peak bone mass; increased risk of osteoporosis in later life; nerve sensitivity; insomnia; chronic depression; synthesis and release of neurotransmitters.

**Possible Toxicity Signs:** Depressed nerve function, drowsiness, extreme lethargy, calcium deposits, kidney stones.

### **Carbon**

**Non-Dietary Sources:** Essential to all known living systems; many biological and chemical compounds. Graphite, charcoal, carbon steel, diamonds, propellant in fireworks, printing ink, laser print toner, water purification, kitchen extractor hoods; in medicine to absorb toxins, poisons, or gases from the digestive system.

### **Cerium**

**Possible Toxicity Signs:** Often occurs together with calcium in phosphate minerals, and bones are primarily calcium phosphate, cerium can accumulate in bones in small amounts that are not considered dangerous.

### **Chlorine**

**Dietary Sources:** Table salt (as sodium chloride)

**Non-Dietary Sources:** Manufacture of chemicals, plastics, paper, purification of water and sewage, fireworks. Sodium chloride used to de-ice roads.

### **Chromium**

**Dietary Sources:** Broccoli, grape juice (especially red), meat, whole grain products.

**Non-Dietary Sources:** Cigarette smoke, e-cigarette vapour, dental work; metal plating & anodizing aluminium; stainless steel; hip replacements; leather tanning; paints; dyes; explosives; cement.

**Possible Deficiency Signs:** Diabetes; hypoglycemia; alcohol intolerance; irritability; weakness.

**Possible Toxicity Signs:** Lung disease, anaemia, cerebral oedema, eczema, headaches gastric ulcers.

### **Cobalt**

**Non-Dietary Sources:** Manufacture of tungsten carbide; hip replacements.

**Possible Deficiency Signs:** Anaemia.

**Possible Toxicity Signs:** Goitre; hypothyroidism; heart failure; tremors; polycythemia.

### **Copper**

**Dietary Sources:** Liver, seafood, oysters, nuts, seeds; some: whole grains, legumes.

**Non-Dietary Sources:** Copper water pipes (particularly in soft water areas); some medicines; pesticides; fungicides; brake linings; wiring; some contraceptive devices; dental amalgam; coins, algicides in hot tubs, fireworks. Blood copper levels raised by the contraceptive pill.

**Possible Deficiency Signs:** Rheumatoid arthritis; cardiovascular disease; impaired immune system; affects bone & blood formation in infants; possible role in cardiovascular disease.

**Possible Toxicity Signs:** Rheumatoid arthritis; cardiovascular disease; gastro-intestinal irritation (similar to deficiency signs). Zinc deficiency symptoms.

### **Dysprosium**

**Non-Dietary Sources:** Never found in nature as a free element, though it is found in many minerals, including xenotime, fergusonite, gadolinite, euxenite, polycrase, blomstrandine, monazite and bastnäsite.

### **Erbium**

**Non-Dietary Sources:** Always found in chemical combination with other elements.

### **Europium**

**Non-Dietary Sources:** Not found in nature as a free element. Many minerals contain europium, with the most important sources being bastnäsite, monazite and xenotime.

### **Fluorine**

**Non-Dietary Sources:** Herbicides and fungicides; some drugs; inhaled anaesthetics; radioactive tracers for PET scanning; fluoride toothpastes; in some water naturally and added to some other water supplies.

**Possible Toxicity Signs:** Highly toxic.

### **Gadolinium**

**Non-Dietary Sources:** MRI contrast agent, iron & chromium production, nuclear reactor shielding.

**Possible Toxicity Signs:** Kidney disorders, decreased white blood cell count, tremors, pain (muscle, bone, burning, tingling, sharp, etc.), hair loss, ocular issues, edema, etc.

### **Gallium**

**Non-Dietary Sources:** Drugs; radionuclide scanning for malignant diseases; used in the production of artificial gadolinium gallium garnet for jewellery.



## Germanium

Non-Dietary Sources: Used in electronic devices; fibre-optics; chemotherapy drugs; fly ash of power plants fuelled from coal deposits that contain germanium.

## Gold

Non-Dietary Sources: Dental work; jewellery; gold salts for treating rheumatoid arthritis.

Possible Toxicity Signs: Mouth ulceration; itching; eczema; seborrheic dermatitis; alopecia; inflamed gums; gastritis; colitis; blood abnormalities; kidney damage (from the effect of gold salts).

## Hafnium

Non-Dietary Sources: Found in many zirconium minerals; used in filaments and electrodes.

## Helium

Non-Dietary Sources: Balloons; used as a shielding gas in arc welding processes; used as a protective gas in some industrial processes.

## Holmium

Dietary Sources: Humans typically consume about a milligram of holmium a year from plants.

Non-Dietary Sources: Found in the minerals monazite and gadolinite; in high-strength magnets.

## Hydrogen

Non-Dietary Sources: Most abundant chemical substance in the Universe.

## Indium

Non-Dietary Sources: Used in the semiconductor industry.

## Iodine

Dietary Sources: Seaweed, grains, eggs, iodised salt.

Possible Deficiency Signs: Goitre, reduced growth.

Possible Toxicity Signs: Excess salivation, sneezing, conjunctivitis, headaches, laryngitis, bronchitis, skin rashes; low sperm count.

## Iridium

Non-Dietary Sources: Electronics-related applications; used in devices that must withstand extremely high temperature; used for painting porcelain an intense black.

## Iron

Dietary Sources: Meat, seafood, nuts, beans, dark chocolate

Non-Dietary Sources: Metal for building; steel, toner for photocopiers and printers, food additive, stainless steel, cast iron cookware; cosmetics (as iron oxide), fireworks.

Possible Deficiency Signs: Anaemia; fatigue; cracking at corner of mouth; recurrent mouth ulcers; sore tongue; poor hair growth; brittle nails; generalized itching.

Possible Toxicity Signs: Abdominal pain; arthritis; loss of libido; damage to liver, heart and pancreas;

people with certain neuro- degenerative disorders such as Parkinson's disease and dementia show excessive accumulation of iron in the brain.

## Krypton

Non-Dietary Sources: Used in lighting and photography; concentration in the atmosphere is about 1 ppm.

## Lanthanum

Non-Dietary Sources: Numerous applications as catalysts, additives in glass, carbon arc lamps for studio lights and projectors, ignition elements in lighters and torches, electron cathodes, scintillators, GTAW electrodes, and other things. Lanthanum carbonate is used as a phosphate binder in cases of renal failure.

## Lead

Dietary Sources: Present in all foods, generally at very low levels.

Non-Dietary Sources: Leaded petrol fumes; old water pipes; leaded paint; lead plumbing; solder; improperly glazed pottery; cigarette ash; cigarette smoke, e-cigarette vapour, lipstick, pewter; lead crystal ware.

Possible Toxicity Signs: Loss of appetite; constipation; headache; weakness; blue or black line on gums; anaemia; irritability; vomiting; poor coordination; unsteady gait; visual disturbances; delirium; paralysis; kidney failure; mainly deposited in bones and teeth.

## Lithium

Non-Dietary Sources: Glass, ceramics, steel & aluminium production, lithium batteries, iron additives, fireworks.

Possible Deficiency Signs: Depression, bipolar episodes.

## Lutetium

Non-Dietary Sources: Very difficult to separate from other elements; few commercial uses.

## Magnesium

Dietary Sources: Spinach, legumes, nuts, seeds, whole grains, peanut butter, avocado.

Non-Dietary Sources: Present in hard water; alloys; batteries; fireworks; glass; ceramics; fillers; flocculating agents; magnesium sulphate used in sugar refining. Indian coins.

Possible Deficiency Signs: Muscle dysfunction; irritability & tension; fatigue; pre-menstrual syndrome; apathy.

Possible Toxicity Signs: Muscle weakness; fatigue; sleepiness; hyper-excitability.

## Manganese

Dietary Sources: Grains, legumes, seeds, nuts, leafy vegetables, tea, coffee.

Non-Dietary Sources: Cigarette smoke, e-cigarette vapour, textile bleaching, glass manufacture, fertil-



izers, compounds used in unleaded petrol and pesticides, pottery glazes. US dollar coin.

Possible Deficiency Signs: Joint pains; dizziness; schizophrenia.

Possible Toxicity Signs: Lethargy; involuntary movements; impairment of voluntary movements; changes in muscle tone.

### **Mercury**

Dietary Sources: Fish.

Non-Dietary Sources: Cigarette smoke, dental amalgam; pesticides; fungicides; cystitis from coal-burning power stations, contaminated fish, vaccines, volcanic emissions, vaccines.

Possible Toxicity Signs: Tremor; muscle instability; sensory disturbances; gastro-intestinal symptoms; dermatitis; liver and kidney damage; anaemia; mental deterioration; blue line on gums.

### **Molybdenum**

Dietary Sources: Legumes, whole grains, nuts.

Non-Dietary Sources: Compounds used in lubricants.

Possible Deficiency Signs: Irritability; irregular heart beat; dental caries; male sexual impotence; cancer of the oesophagus, works as an antioxidant.

Possible Toxicity Signs: Gout; increased urinary excretion of copper.

### **Neodymium**

Non-Dietary Sources: In powerful permanent magnets; used in China as fertiliser.

### **Neon**

Non-Dietary Sources: Used in vacuum tubes, high-voltage indicators, lightning arresters, wave meter tubes, television tubes, and helium–neon lasers.

### **Nickel**

Dietary Sources: Present naturally in foods; average diet supplies 300-600 µg of nickel to the human body per day.

Non-Dietary Sources: Cigarette smoke, e-cigarette vapour, stainless steel; water boiled in a kettle with an element; clasps; jewellery; spectacles; buckles; keys; coins; diesel fumes; can be in flour because of milling; a catalyst for hydrogenating vegetable oils.

Possible Deficiency Signs: May activate certain enzymes and play a role in stabilizing chromosomal material in cell nuclei but at the moment no known diseases are associated with a nickel deficiency.

Possible Toxicity Signs: May be a factor in lung cancer; frontal headaches; vertigo; nausea; vomiting; chest pain; cough. Dermatitis from skin contact with nickel in sensitive people.

### **Niobium**

Non-Dietary Sources: Used in high-grade structural steel.

### **Nitrogen**

Non-Dietary Sources: Occurs in all organisms, primarily in amino acids (and thus proteins), in the nucleic acids (DNA and RNA) and in the energy transfer molecule adenosine triphosphate.

### **Osmium**

Non-Dietary Sources: Often alloyed with other metals for high-wear applications (e.g. the tips of fountain pens, instrument pivots, and electrical contacts, record styli).

### **Oxygen**

Non-Dietary Sources: By mass, the third-most abundant element in the universe. Used in cellular respiration and many major classes of organic molecules in living organisms contain oxygen, such as proteins, nucleic acids, carbohydrates, and fat.

### **Palladium**

Non-Dietary Sources: Road dust from catalytic converters; dental work; electrical components.

Possible Toxicity Signs: Possibly carcinogenic.

### **Phosphorus**

Dietary Sources: Red meat, dairy foods, fish, poultry, bread, rice, oats.

Non-Dietary Sources: Fireworks.

Possible Deficiency Signs: Debility; loss of appetite; weakness; bone pain; tingling sensations; tremor; irritability.

Possible Toxicity Signs: Prevents absorption of iron, calcium, magnesium & zinc; diarrhoea; calcification of soft tissues.

### **Platinum**

Non-Dietary Sources: Jewellery, dental fillings, pacemakers, tobacco, road dust from catalytic converters, LCDs, chemotherapy agents; high quality glassware.

Possible Deficiency Signs: Platinum compounds have anti-tumor activity.

Possible Toxicity Signs: Platinum salts can cause DNA alterations, cancer, allergic reactions of the skin and the mucous membranes, damage to organs (such as intestines, kidneys and bone marrow) and hearing damage.

### **Potassium**

Dietary Sources: Sweet potato, tomato, potato, beans, lentils, dairy products, seafood, banana, prune, carrot, orange

Non-Dietary Sources: Fireworks

Possible Deficiency Signs: Hypokalaemia; can be caused by diarrhoea, medications like furosemide and steroids, dialysis, diabetes insipidus, hyperaldosteronism, hypomagnesaemia, and shortage in the diet.

Possible Toxicity Signs: Hyperkalaemia; usually no symptoms; occasionally when severe results in palpitations, muscle pain, muscle weakness, or numbness.

### **Praseodymium**

Non-Dietary Sources: A yellow-orange “Praseodymium Yellow” stain for ceramics.

### **Radium**

Non-Dietary Sources: Used in nuclear medicine.

### **Rhenium**

Non-Dietary Sources: Used in parts for jet engines.

### **Rhodium**

Non-Dietary Sources: Road dust from catalytic converters; white gold often plated with rhodium to improve its appearance and sterling silver is also for tarnish resistance.

### **Rubidium**

Non-Dietary Sources: Fireworks.

### **Ruthenium**

Non-Dietary Sources: Used in electrical contacts; being actively researched for solar energy technologies.

### **Samarium**

Non-Dietary Sources: Used in magnets in small motors, headphones, and high-end magnetic pickups for guitars and related musical instruments. Radioactive isotope samarium-153 is drug used in the treatment of lung cancer, prostate cancer, breast cancer and osteosarcoma.

### **Scandium**

Non-Dietary Sources: Used in high-end sports goods (baseball bats, bicycle frames and components, and Lacrosse sticks). Some Smith & Wesson semi-automatic pistols and revolvers have frames of scandium alloy. Used to strengthen aluminium alloys.

### **Selenium**

Dietary Sources: Brazil nuts, seafoods, organ meats, meats, grains, dairy products, eggs.

Non-Dietary Sources: Cigarette smoke, anti-dandruff shampoos; steel and glass additive.

Possible Deficiency Signs: Possible links with some forms of cancer & development of coronary heart disease; premature ageing.

Possible Toxicity Signs: Hair loss, nail changes and loss, fatigue, irritability, nausea, gastrointestinal problems, joint inflammation, “garlic breath”, dental caries; skin depigmentation; irritability.

### **Silicon**

Non-Dietary Sources: Granite dust; sand, cement, porcelain, semiconductor electronics; ingredient in some toothpastes.

Possible Deficiency Signs: Poor skin, nails, hair and bone density. Needed for synthesis of elastin and collagen, of which the aorta contains the greatest quantity in the human body.

Possible Toxicity Signs: Inhalation of crystalline silica dust may lead to silicosis, an occupational lung disease marked by inflammation and scarring

in the form of nodular lesions in the upper lobes of the lungs.

### **Silver**

Non-Dietary Sources: Dental amalgam; jewellery; food colouring (E174); electrical components; silver compounds used in photography.

Possible Toxicity Signs: Argyria (blue-gray/ashen gray darkening of the eyes, nose, throat, skin and nasal septum), kidney damage.

### **Sodium**

Dietary Sources: As sodium chloride (salt); monosodium glutamate (MSG), sodium nitrite, sodium saccharin, baking soda (sodium bicarbonate), and sodium benzoate.

Non-Dietary Sources: Sodium compounds used to produce glass, paper, soap, fireworks, and textiles. Most important sodium compounds are table salt (NaCl), soda ash (Na<sub>2</sub>CO<sub>3</sub>), baking soda (NaHCO<sub>3</sub>), caustic soda (NaOH), sodium nitrate (NaNO<sub>3</sub>), di- and tri-sodium phosphates, sodium thiosulfate (Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>·5H<sub>2</sub>O), and borax (Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>·10H<sub>2</sub>O).

Possible Deficiency Signs: Muscle cramps; fatigue; nausea. (Sodium is an essential mineral that regulates blood volume, blood pressure, osmotic equilibrium and pH.)

Possible Toxicity Signs: Hypertension; fluid retention

### **Strontium**

Dietary Sources: Spices, whole grains, leafy green vegetables such as spinach and kale, seafood, root vegetables like carrots and parsnips, and legumes like beans, lentils and peas.

Non-Dietary Sources: Fireworks. Glass for colour television cathode ray tubes.

Possible Toxicity Signs: In the human body, most of the absorbed strontium is deposited in the bones.

### **Sulphur / Sulfur**

Non-Dietary Sources: Natural gas, petroleum, fertilizer, insecticides, fireworks, matches, wood pulping, rubber vulcanisation, products for treating acne, dandruff, psoriasis etc.

Possible Deficiency Signs: Detoxification, proper insulin function, Vitamins B1 and B7 activation, mitochondrial function.

Possible Toxicity Signs: Digestive issues, flatulence, hives, fatigue.

### **Tantalum**

Non-Dietary Sources: Production of electronic components, mainly capacitors and some high-power resistors.

### **Tellurium**

Non-Dietary Sources: In copper and steel alloys.

**Terbium**

Non-Dietary Sources: Used in fluorescent lamps and television and monitor cathode ray tubes.

**Thallium**

Non-Dietary Sources: Found in association with potassium-based minerals in clays, soils, and granites; by-product of zinc & lead production; some glass; jewellery; dyes; pigments; electronics; recreational drug contaminant.

Possible Toxicity Signs: Polyneuritis; fatigue; weight loss; possibly reduced immunity; leg pain in adults; arthritis; MS; Alzheimer's; polyneuritis; fatigue; weight loss; possibly reduced immunity; leg pain in adults; arthritis; MS; Alzheimer's disease; probably carcinogenic.

**Thulium**

Non-Dietary Sources: Widely used in laser technology in military applications, medicine, and meteorology.

**Tin**

Non-Dietary Sources: Dental amalgam; canning; solder in iron & copper pipes; compounds used in fungicides and glass coatings.

Possible Toxicity Signs: Nausea; colic; headache; weakness; fever; muscle pain; joint pain; tinnitus.

**Titanium**

Non-Dietary Sources: Dental work; surgical metal in hip replacements etc.; jewellery; sunscreen, fireworks, filler in many prescription and OTC medicines, cosmetics (as titanium dioxide).

Possible Toxicity Signs: Possible effects on respiratory system and the brain; may be carcinogenic.

**Tungsten / Wolfram**

Non-Dietary Sources: Used to produce tungsten carbide, alloys and steel.

**Uranium**

Non-Dietary Sources: Nuclear power plants and weapons.

**Vanadium**

Dietary Sources: Some mineral water springs.

Non-Dietary Sources: Catalytic converters; chemical catalyst.

Possible Deficiency Signs: Sugar cravings, inability to lose weight.

Possible Toxicity Signs: Bipolar disorder.

**Xenon**

Non-Dietary Sources: Found in the Earth's atmosphere in trace amounts. Used in flash lamps, arc lamps, and as a general anesthetic.

**Ytterbium**

Non-Dietary Sources: Used in nuclear medicine and atomic clocks.

**Yttrium**

Non-Dietary Sources: Red component of color television cathode ray tubes; synthetic garnets; in some drugs to treat cancer.

**Zinc**

Dietary Sources: Oysters, red meat, poultry, nuts, whole grains, dairy products.

Non-Dietary Sources: Cigarette smoke, galvanised iron; brass; solder; die-casting; tires; zinc oxide is used in paints, rubber, textiles, fireworks, sunscreens, cosmetics and plastics.

Possible Deficiency Signs: Persistent leg ulcers & pressure sores; red, greasy skin on face; skin problems, poor hair growth; dandruff; night blindness; brittle nails; white spots on nails.

Possible Toxicity Signs: Impaired copper & iron absorption; gastro-intestinal disturbances; mask-like fixed expression; difficulty in walking; slurred speech; hand tremor; involuntary laughter.

**Zirconium**

Non-Dietary Sources: Dental implants, nuclear power, ceramics, glassware, antiperspirants, skin lotion, synthetic dyes, etc.

Possible Toxicity Signs: Pulmonary fibrosis, general pulmonary issues, granulomata.

# Emotional States Composite Test Kit

## 10 vials

This is a kit of ten primary or broad-spectrum emotions or states of being. There are thousands of different emotions, so making an emotions test kit was always going to be a challenge. The way in which these countless emotions have been distilled and categorised has been established through kinesiology testing and the study of anthropological and psychological research in this field.

Each of these ten emotional states encompasses many other emotions of varying intensity. The other emotions are listed under the primary emotion.

Positive emotions can be as problematic as negative emotions. People can feel they do not deserve to be happy or that happiness is boring. Some people will have problems with two opposing emotions, for example, happiness and sadness, and vacillate between them, sabotaging themselves when they are happy and when they are unhappy.

It could be argued that there are no completely positive or negative emotional states; emotions are appropriate or inappropriate depending on circumstances and in order to be full human beings we need to be able to experience all the emotions at different times.

<b>EC 01 Anger</b>			<b>EC 02</b>	<b>EC 03</b>	<b>EC 04 Fear</b>
	Hard	Rebellious	<b>Apathy</b>	<b>Bravery</b>	Afraid
Abrasive	Harsh	Resentful	Alienated	Adventurous	Alarmed
Abhorrent	Hated	Resistant	Alone	Alert	Anxious
Abusive	Heartless	Revolted	Bored	Alive	Apprehensive
Acrimonious	Hostile	Riled	Cold	Anticipating	Ashamed
Aggressive	Hot-headed	Rough	Cool	Assured	Awed
Aggrieved	Hot-tempered	Rude	Cut off	Aware	Baffled
Angry	Impatient	Ruthless	Dead	Bold	Bashful
Annoyed	Ill humoured	Sabotaging	Defeated	Brave	Bewildered
Antagonistic	Ill tempered	Sadistic	Depressed	Capable	Bothered
Antagonized	Incandescent	Sarcastic	Demoralised	Centred	Careful
Argumentative	Incensed	Savage	Discouraged	Certain	Cautious
Belligerent	Indignant	Seething	Disillusioned	Competent	Clammy
Bitchy	Infamed	Severe	Doomed	Confident	Concerned
Bitter	Infuriated	Sharp	Drained	Creative	Conflicted
Boisterous	Inhuman	Simmering	Emotionless	Courageous	Confused
Brutal	Insensitive	Smouldering	Empty	Daring	Cowardly
Bugged	Insulted	Spiteful	Helpless	Decisive	Cowed
Bullying	Irascible	Steely	Hopeless	Determined	Cowering
Burning	Irate	Stern	Impassive	Dynamic	Cringing
Caustic	Irritable	Stubborn	Inattentive	Eager	Daunted
Chaotic	Irritated	Sulky	Indifferent	Enthusiastic	Defensive
Choleric	Jealous	Sullen	Lazy	Excited	Degraded
Cranky	Livid	Unkind	Listless	Exhilarated	Dismayed
Cross	Mad	Unrelenting	Lost	Exuberant	Dissatisfied
Cruel	Malevolent	Up in arms	Low	Fearless	Distraught
Cynical	Mean	Resentful	Negative	Flexible	Distressed
Defensive	Merciless	Vehement	Numb	Focussed	Distrustful
Defiant	Murderous	Vengeful	Overwhelmed	Gallant	Disturbed
Demanding	Offended	Vicious	Passive	Heroic	Doubtful
Destructive	On fire	Violent	Pessimistic	Honourable	Dread
Disgusted	Out of sorts	Wicked	Phlegmatic	Independent	Edgy
Displeased	Outraged	Wild	Pointless	Intrepid	Embarrassed
Enraged	Peevish	Wilful	Powerless	Invincible	Evasive
Exasperated	Petulant	Wrathful	Resigned	Motivated	Faint-hearted
Explosive	Piqued		Self-defeating	Optimistic	Fearful
Fed-up	Pissed off		Spaced out	Plucky	Foreboding
Ferocious	Pissed		Spacey	Positive	Frantic
Fierce	(American		Stoned	Purposeful	Frightened
Fiery	usage)		Stuck	Resilient	Guilty
Forceful	Pushy		Tired	Resolute	Hesitant
Frustrated	Upset		Unemotional	Secure	Horried
Fuming	Pitiless		Unfeeling	Self-sufficient	Hot and bothered
Furious	Provoked		Unfocussed	Strong	Humiliated
Gruff	Quarrelsome		Uninterested	Sure	Hysterical
Grumpy	Raging		Unmoved	Tireless	Ill at ease
	Raving		Unresponsive	Undaunted	In suspense
			Useless	Valiant	In turmoil
			Vague	Vigorous	Inhibited
			Worthless	Visionary	Insecure
				Willing	
				Zealous	



**(Fear Continued)**

Intimidated  
Irrational  
Miserable  
Mixed-up  
Nervous  
Neurotic  
On edge  
On tenterhooks  
Overwrought  
Panicky  
Panic-stricken  
Paralysed  
Paranoid  
Perplexed  
Perturbed  
Petrified  
Phobic  
Puzzled  
Reluctant  
Restless  
Scared  
Shaky  
Shocked  
Shy  
Skulking  
Soft  
Stressed  
Sullen  
Superstitious  
Suspicious  
Tense  
Terrified  
Threatened  
Timid  
Tormented  
Torn  
Trapped  
Trembling  
Troubled  
Uncertain  
Uncomfortable  
Uneasy  
Upset  
Vulnerable  
Wary  
Weak  
Worried  
Yellow

**EC 05 Happiness**

Affable  
Agreeable  
Alert  
Alive  
Amiable  
Amused  
Animated  
Anticipating  
Appreciated  
Blessed  
Blissful  
Blithe  
Carefree  
Charming  
Cheerful  
Comfortable  
Congenial  
Content  
Contented  
Delighted  
Eager  
Ecstatic  
Elated  
Encouraged  
Enthusiastic  
Excited  
Exhilarated  
Exuberant  
Floating on air  
Full of life  
Gay  
Glad  
Glowing  
Good-humoured

Good-natured  
Gratified  
Happy  
Happy-go-lucky  
Hopeful  
Jolly  
Joyful  
Joyous  
Jubilant  
Kind  
Kindly  
Laughing  
Light-hearted  
Lively  
Merry  
Nonchalant  
On cloud nine  
Optimistic  
Overjoyed  
Over the moon  
Patient  
Playful  
Pleasant  
Pleased  
Radiant  
Rapt  
Relieved  
Satisfied  
Sparkling  
Sunny  
Sure  
Sweet  
Sweet-tempered  
Thrilled  
Vibrant  
Vital  
Vivacious  
Worthy

**EC 06 Love**

Accepted  
Accepting  
Adored  
Adoring  
Affectionate  
Appreciated  
Aroused  
Blessed  
Blissful  
Cared for  
Cared  
Caring  
Cherished  
Cherishing  
Comforted  
Compassionate  
Connected  
Consoled  
Consoling  
Doting  
Embraced  
Enchanted

Esteemed  
Friendly  
Gentle  
Helpful  
Included  
Including  
Intimate  
Light-hearted  
Liked  
Lovable  
Loved  
Lovely  
Loving  
Needed  
Nurtured  
Nurturing  
Obsessed  
Respected  
Savoured  
Smitten  
Sociable  
Tender  
Warm  
Welcoming

**EC 07 Lust**

Ardent  
Carnal  
Compulsive  
Craving  
Demanding  
Desiring  
Driven  
Envious  
Fixated  
Frustrated  
Gluttonous  
Greedy  
Hungry  
Impatient  
Lascivious  
Lecherous  
Libidinous  
Licentious  
Lustful  
Manipulative  
Miserly  
Obsessed  
Over indulgent  
Passionate  
Possessive  
Predatory  
Pushy  
Randy  
Raunchy  
Reckless  
Scheming  
Selfish  
Sensual  
Sexy  
Voracious  
Wanton  
Wicked

**EC 08 Peace**

Abundant  
Accepted  
Amicable  
Appreciative  
At ease  
At peace  
Balanced  
Beautiful  
Benevolent  
Benign  
Blissful  
Blithe  
Calm  
Carefree  
Easy

Easy-going  
Harmonious  
Intuitive  
Light  
Mellow  
Peaceful  
Placid  
Quiet  
Relaxed  
Restful  
Serene  
Still  
Tranquil  
Undisturbed  
Unruffled  
Untroubled

**EC 09 Pride**

Aloof  
Arrogant  
Bigoted  
Boastful  
Clever  
Closed  
Complacent  
Conceited  
Contemptuous  
Critical  
Disdainful

Dogmatic  
Egotistical  
Gloating  
Haughty  
Hypocritical  
Icy  
Imperious  
Inflexible  
Isolated  
Judgemental  
Narrow-minded  
Opinionated  
Overbearing

Patronising  
Pious  
Prejudiced  
Proud  
Righteous  
Rigid  
Self-important  
Self-respecting  
Self-satisfied  
Selfish  
Smug  
Snobbish  
Snooty

Special  
Stoical  
Stubborn  
Stuck up  
Supercilious  
Superior  
Uncompromising  
Unfeeling  
Unforgiving  
Unyielding  
Vain

**EC 10 Sadness**

Abandoned  
Abject  
Abused  
Anguished  
Upset  
Apologetic  
Bad  
Bereaved  
Betrayed  
Bleak  
Blue

Broken hearted  
Burdened  
Cheated  
Dark  
Defeated  
Dejected  
Desolate  
Despairing  
Desperate  
Despondent  
Disappointed  
Disconsolate  
Discontented  
Discounted  
Discouraged

Disgruntled  
Disheartened  
Distracted  
Dismal  
Dismayed  
Dispirited  
Displeased  
Dissatisfied  
Doleful  
Down  
Downcast  
Downhearted  
Forlorn  
Gloomy  
Glum  
Grey

Grief-stricken  
Grieving  
Grim  
Guilty  
Heart broken  
Heavy  
Heavy-hearted  
Hurt  
In despair  
In the dumps  
Inadequate  
Inconsolable  
Inept  
Insignificant  
Introverted

Joyless  
Left out  
Lonely  
Longing  
Martyred  
Regretful  
Melancholic  
Miserable  
Morose  
Mournful  
Needy  
Oppressed  
Pathetic  
Pensive  
Pessimistic

Pitiable  
Pitiful  
Regret  
Rejected  
Remorseful  
Sad  
Sombre  
Sorrowful  
Sorry  
Stuck  
Suicidal  
Tearful  
Tormented  
Tortured

Undeserving  
Unfortunate  
Unhappy  
Unloved  
Unpleasant  
Unsmiling  
Unwanted  
Upset  
Vulnerable  
Wistful  
Woebegone  
Wounded  
Wretched

# Essential Oil A Test Kit

## 37 vials

*The energy patterns of bergamot, camomile (2 types), cinnamon, clove, cyprus, dill, eucalyptus, frankincense, ginger, jasmine, lavender, lemon (2 types), lemon grass, etc.*

- EO1 Angelica *Angelica archangelica*
- EO2 Aniseed *Pimpinella anisum*
- EO3 Basil *Ocimum basilicum*
- EO4 Benzoin *Styrax tokinensis benzoin*
- EO5 Bergamot *Citrus bergamia*
- EO6 Cajeput *Melaleuca leucadendron*
- EO7 Caraway *Carum carvi*
- EO8 Cardamom *Elettaria cardamomum*
- EO9 Cedar, Atlas *Cedrus atlantica*
- EO10 Chamomile *Matricaria chamomilla*
- EO11 Chamomile, Roman *Anthemis nobilis*
- EO12 Cinnamon *Cinnamomum zeylanicum*
- EO13 Clove *Eugenia caryophyllata*
- EO14 Coriander *Coriandrum sativum*
- EO15 Cumin *Cuminum cyminum*
- EO16 Cypress, Mediterranean *Cupressus sempervirens*
- EO17 Dill *Anethum (Peucedanum) graveolens*
- EO18 Elemi *Canarium luzonicum*
- EO19 Eucalyptus, Tasmanian Blue Gum *Eucalyptus globulus*
- EO20 Fennel *Foeniculum vulgare var. dulce*
- EO21 Fir *Abies maritima*
- EO22 Frankincense *Boswellia carterii*
- EO23 Galbanum *Ferula galbaniflua*
- EO24 Garlic *Allium sativum*
- EO25 Grapefruit, white *Citrus x paradisi*
- EO26 Ginger *Zingiber officinale*
- EO27 Hyssop *Hyssopus officinalis*
- EO28 Jasmine *Jasminum grandiflorum*
- EO29 Juniper, Common *Juniperus communis*
- EO30 Juniper (Pencil Cedar) *Juniperus virginiana*
- EO31 Lavender, Dutch *Lavandula vera*
- EO32 Lemon, Green *Citrus limon*
- EO33 Lemon, Yellow *Citrus limon*
- EO34 Lemongrass *Cymbopogon flexuosus*
- EO35 Lime *Citrus aurantifolia*
- EO36 Mandarin, Green *Citrus reticulata*
- EO37 Mandarin, Red *Citrus madurensis*



# Essential Oil B Test Kit

## 37 vials

*The energy patterns of marigold (French), marjoram (2 types) melissa, myrrh, patchouli, rose ( 2 types), rosemary, sandalwood, etc.*

- EO38 Marigold, French Tagetes patula
- EO39 Marjoram, Wild Origanum vulgare
- EO40 Marjoram, Sweet Origanum marjoram
- EO41 May Chang Litsea cubeba
- EO42 Melissa Melissa officinalis
- EO43 Mint, Common Mentha arvensis
- EO44 Myrrh Commiphora myrrha
- EO45 Myrtle, Common Myrtus communis
- EO46 Nutmeg Myristica fragrans
- EO47 Orange, Sweet Citrus (aurantium.)sinensis
- EO48 Orange, Bitter Citrus aurantium
- EO49 Patchouli Pogostemon patchouli
- EO50 Pelargonium (Geranium) Pelargonium graveolens
- EO51 Pennyroyal Mentha pulegia
- EO52 Petitgrain Citrus bigaradia
- EO53 Pepper, Black Piper nigrum
- EO54 Peppermint Mentha piperita
- EO55 Pine, Arolla Pinus cembra
- EO56 Rock Rose (Sun Rose) Cistus ladanifer
- EO57 Rose, Damask Rosa damascena
- EO58 Rose, Provence Rosa centifolia
- EO59 Rosemary Rosmarinus officinalis
- EO60 Sage Salvia officinalis
- EO61 Sage, Clary Salvia sclarea
- EO62 Sandalwood Santalum album
- EO63 Savory, Summer Satureja hortensis
- EO64 Spearmint Mentha spicata
- EO65 Tea Tree Melaleuca alternifolia
- EO66 Tarragon Artemisia dranuculus
- EO67 Thuja Thuja occidentalis
- EO68 Thyme, Red Thymus vulgaris
- EO69 Thyme, White Thymus vulgaris
- EO70 Verbena, Lemon scented Lippia citriodora
- EO71 Vetiver Vetiveria zizanoides
- EO72 Wintergreen Gaultheria procumbens
- EO73 Yarrow Alchemilla millefolium
- EO74 Ylang Ylang Cananga odorata

# Food A Test Kit

## 56 vials

*The energy patterns of apple, apricot, banana, beef, carrot, cauliflower, celery, cheese, chicken, egg, garlic, grape, lemon, lettuce, marrow, milk, peanut, pork, potato, etc.*

FA1 Apple	FA37 Peanut
FA2 Apricot	FA38 Pear
FA3 Banana	FA39 Peppers/ Bell Peppers
FA4 Beef	FA40 Pineapple
FA5 Blackcurrant	FA41 Plaice
FA6 Butter	FA42 Plum
FA7 Carrot	FA43 Pork
FA8 Cauliflower	FA44 Potato
FA9 Celery	FA45 Prawns
FA10 Cheese, Cow's	FA46 Pumpkin Seed
FA11 Chicken	FA47 Rhubarb
FA12 Cod	FA48 Sesame Seeds
FA13 Courgette/Zucchini	FA49 Spinach
FA14 Cucumber	FA50 Strawberry
FA15 Egg	FA51 Sunflower Seeds
FA16 Garlic	FA52 Tomato
FA17 Grape	FA53 Tuna
FA18 Ham	FA54 Turkey
FA19 Hazelnut	FA55 Watercress
FA20 Honey	FA56 One vial containing 78 mixed foods and food additives: almonds, apple, apricot, baking powder, banana, Barleycup, beef, blackcurrant, brazil nut, bread (white), butter, carob, cashew, cauliflower, cheese, chicken, chocolate, coconut, coffee (instant), corn, egg (raw in shell), flour (white), wheat, ginger, gooseberry, grapes, ham, honey, ice cream (vanilla), lemon, lentils, malt, margarine (mixed), marrow, milk, mushroom, oil (vegetable), onion, orange, pea, peach, peanut, pear, pineapple, plum, potato, raspberry, salmon, soya flour, sugar (beet), sultanas, saccharin, tomato, turkey, vinegar, yeast (bakers and brewers), E102, E104, E110, E123, E127, E142, E223, E330, E500, E621, artificial colours(mixed), sweets (mixed), nuts (mixed), kiwi fruit, loganberry, sugar (icing), coal tar
FA21 Kiwi Fruit	
FA22 Lamb	
FA23 Lemon	
FA24 Lettuce	
FA25 Loganberry	
FA26 Marrow	
FA27 Milk, Cow's	
FA28 Mint	
FA29 Mixed Sweets/ Mixed Candies	
FA30 Mushroom	
FA31 Onion	
FA32 Orange	
FA33 Parsley	
FA34 Parsnip	
FA35 Pea	
FA36 Peach	

# Food B Test Kit

## 52 vials

*The energy patterns of almond, barley, cashew nut, chickpea, cocoa, coconut, coffee (ground), oats (2 types) rice ( 3 types), sugar (beet), sugar (cane), wheat flour (4 types) yeast (bakers), yeast (brewers), etc.*

FB57 Almonds	FB92 Runner bean
FB58 Baking powder	FB93 Rye
FB59 Barley: pearl barley	FB94 Salmon
FB60 Beetroot	FB95 Soya bean: flour
FB61 Blackberry: wild	FB96 Sugar: beet
FB62 Brazil nut	FB97 Sugar: cane
FB63 Broad Beans	FB98 Sugar: demerara
FB64 Brussel Sprout	FB99 Sultana
FB65 Buckwheat	FB100 Vinegar: malt
FB66 Cabbage	FB101 Vinegar: white wine
FB67 Carob	FB102 Walnut
FB68 Cashew nut	FB103 Wheat flour: white, plain
FB69 Chickpea	FB104 Wheat flour: white plain organic, un-bleached
FB70 Cocoa	FB05 Wheat flour: white, self raising
FB71 Coconut	FB106 Wheat flour: wholemeal, organic
FB72 Coffee: ground	FB107 Yeast: Bakers
FB73 Corn: sweet corn	FB108 Yeast: Brewers
FB74 Cornflour / Corn Starch	
FB75 Date	
FB76 Fig	
FB77 Glucose	
FB78 Grapefruit	
FB79 Hops	
FB80 Lentil: brown whole	
FB81 Malt	
FB82 Melon: Galia	
FB83 Millet	
FB84 Oats	
FB85 Oats: organic	
FB86 Oil: olive	
FB87 Radish	
FB88 Raspberry	
FB89 Rice: long grain, white	
FB90 Rice: short grain, white	
FB91 Rice: long grain, brown, organic	

# Food C Test Kit

## 50 vials

*The energy patterns of gluten, goat's milk, cow's milk yoghurt, quinoa, blueberry, okra, pak choi, mango, etc.*

FC109 Anchovy in brine	FC134 Mackerel in brine
FC110 Aubergine / Egg Plant	FC135 Mango
FC111 Avocado	FC136 Mussel
FC112 Basil	FC137 Mustard
FC113 Blueberry	FC138 Okra / Lady's Finger
FC114 Broccoli	FC139 Pak Choi
FC115 Celeriac	FC140 Paw Paw/ Papaya
FC116 Cheese, vegetarian	FC141 Pecan
FC117 Cherries	FC142 Pepper, black and white
FC118 Chili, red and green	FC143 Quinoa, organic
FC119 Cinnamon	FC144 Raddichio
FC120 Chocolate	FC145 Rocket / Arugula
FC121 Coriander / Cilantro	FC146 Sage, fresh
FC122 Crab	FC147 Sardines in brine
FC123 Cranberry	FC148 Sorrel
FC124 Cumin	FC149 Spelt flour, organic
FC125 Endive	FC150 Squash, butternut
FC126 Ginger, fresh	FC151 Squid
FC127 Gluten	FC152 Sweet Potato
FC128 Goat's milk	FC153 Tarragon, fresh
FC129 Haddock	FC154 Thyme, fresh
FC130 Lambs Lettuce	FC155 Trout
FC131 Leek	FC156 Turmeric
FC132 Lemongrass	FC157 Yam
FC133 Lobster	FC158 Yoghurt: Cow's Milk

## Food D Test Kit

42 vials

*The energy patterns of many extra herbs, spices, nuts, fruit and vegetables.*

FD159 Asparagus	FD180 Mace
FD160 Bay Leaf	FD181 Mandarin
FD161 Caraway	FD182 Marjoram
FD162 Cardamom	FD183 Nutmeg
FD163 Cayenne	FD184 Oregano
FD164 Chestnut	FD185 Paprika
FD165 Chives	FD186 Passion Fruit
FD166 Clementine	FD187 Physalis/Cape Gooseberry
FD167 Cloves	FD188 Pine Nut
FD168 Dill	FD189 Pistachio Nut
FD169 Fennel	FD190 Pomegranate
FD170 Globe Artichoke	FD191 Poppy Seeds Blue and White
FD171 Gooseberry	FD192 Red Cabbage
FD172 Greengage	FD193 Red Currant
FD173 Horseradish	FD194 Rosemary
FD174 Jerusalem Artichoke	FD195 Saffron
FD175 Kale	FD196 Satsuma
FD176 Kohl Rabi	FD197 Star Anise
FD177 Kumquat	FD198 Star Fruit / Carambola
FD178 Lime	FD199 Tangerine
FD179 Macadamia Nut	FD200 Water Melon

## Food E Test Kit

25 vials

*The energy patterns of more fish, maple syrup, sheep's milk, tofu and more.*

FE201 Cheese, Goats	FE214 Olives in brine
FE202 Cheese, Sheep	FE215 Oyster
FE203 Crayfish	FE216 Pilchard in olive oil
FE204 Duck	FE217 Pollock
FE205 Eggs: Quail	FE218 Red Mullet
FE206 Goji Berry	FE219 Scallops
FE207 Halibut	FE220 Sea Bass
FE208 Hemp Seeds	FE221 Sea Bream
FE209 John Dory	FE222 Sheep's Milk
FE210 Linseed	FE223 Sheep's Milk Yoghurt
FE211 Maple Syrup	FE224 Tofu
FE212 Molasses, organic	FE225 Venison
FE213 Monk Fish	

# Food F Test Kit

## 25 vials

*The energy patterns of “superfoods”, (including spirulina, raw chocolate, guarana) and sweeteners (including xylitol and yacon syrup).*

FF226 Acai Berry, Organic  
An Amazonian berry

FF227 Agave Nectar / Syrup, Raw, Organic  
Low glycaemic index sweetener from the agave, a succulent.

FF228 Apricot Kernel  
The kernels inside the apricot stone.

FF229 Barley Grass Powder  
Young barley leaves, juiced and dried.

FF230 Bee Pollen  
Pollen from flowers collected by bees.

FF231 Blue Green Algae  
Fresh water algae chiefly harvested from Upper Klamath Lake, USA

FF232 Broccoli Seed Powder, Sprouted, Organic  
Broccoli seeds sprouted and then dried and powdered.

FF233 Cacao (Cocoa) Nibs, Organic  
Edible part of the cocoa bean.

FF234 Chlorella, Organic  
A green algae

FF235 Cocoa Butter / Theobroma Oil / Theobroma Cacao, Raw, Organic  
A raw vegetable fat extracted from the cocoa bean.

FF236 Coconut Oil, Raw, Virgin, Cold Pressed  
Extracted from coconuts; heat stable so good for cooking. Non-organic, hydrogenated variety also used in non-dairy creamers and snack foods.

FF237 Durian  
From Monthong variety of durian.

FF238 Guarana, Raw Organic  
From Brazil. A stimulant - high caffeine content.

FF239 Hemp Protein Powder, Organic  
From the Cannabis group of trees, but does not have a narcotic effect.

FF240 Lucuma, Raw Organic  
A South American sub-tropical fruit.

FF241 Maca Powder  
A South American root; also known as Peruvian ginseng.

FF242 Manuca Honey  
New Zealand honey from bees fed on manuca (tea tree) bush ; has anti-bacterial properties

FF243 Mesquite  
Powdered pod from tree found in N Mexico and SW USA.

FF244 Nopal Cactus  
Dried Mexican cactus

FF245 Propolis  
Natural bee resin

FF246 Royal Jelly  
Secreted by nurse bees and fed to queen bee throughout her life.



FF247 Spirulina Powder  
A freshwater algae

FF248 Wheat Grass Powder, Organic  
Young wheat leaves juiced and dried.

FF249 Xylitol

Made from birch tree; just over half calories of sugar; GI of 8; scientific research shows may help prevent tooth decay.

FF250 Yacon Syrup, Raw, Organic  
The syrup from a South American tuber.

## Food G Test Kit 50 vials

Focussing on Asian cuisine, including seaweeds, fruits and vegetables.

Many of the items in this kit are regarded as superfoods, although the term is not accepted by conventional scientists and medical people.

- FG 251 Acacia Leaves
- FG 252 Agar / Kanten
- FG 253 Bamboo Shoot
- FG 254 Banana Leaves
- FG 255 Beansprout
- FG 256 Black Fungus / Cloud Ear Fungus / Wood Ear Fungus / Tree Ear Fungus
- FG 257 Candle Nut / Kemiri
- FG 258 Cao Guo / Chinese Black Cardamom/ Tsaoko Fruit/ Chao Kuo/ Amomum Tsao-Ko
- FG 259 Chinese Chives / Kow Choi / Garlic Chives
- FG 260 Chinese Leaves /Chinese Cabbage / Nappa Cabbage / Celery Cabbage
- FG 261 Choy Sum /Chinese Flowering Cabbage
- FG 262 Daikon / Mooli / White Radish
- FG 263 Dragon Fruit
- FG 264 Drumsticks
- FG 265 Galangal
- FG 266 Guava
- FG 267 Jackfruit
- FG 268 Kaffir Lime Leaves
- FG 269 Kudzu / Kuzu
- FG 270 Lily Bulb
- FG 271 Longan
- FG 272 Lotus Leaf
- FG 273 Lotus Root
- FG 274 Lotus Seed
- FG 275 Lychee
- FG 276 Mirin – ingredients may vary slightly so this is only a guide.
- FG 277 Paan Leaf /Pan /Betel Leaf
- FG 278 Pak Che Farang / Culantro / Mexican Coriander / Long Coriander / Ergium / Thai Parsley
- FG 279 Pandan Leaves / Rampe/ScrewPine/Pandanus
- FG 280 Parval / Parwal / Pointed Gourd
- FG 281 Persimmon
- FG 282 Rambutan
- FG 283 Red Fermented Bean Curd
- FG 284 Sansyo/Japanese Pepper
- FG 285 Seaweed, Arame
- FG 286 Seaweed, Dulse
- FG 287 Seaweed, Hijiki
- FG 288 Seaweed, Kombu / Konbu /Dashima /Haidai

- FG 289 Seaweed, Nori
- FG 290 Seaweed, Wakame
- FG 291 Shaoxing Rice Wine
- FG 292 Sichuan Pepper/ Szechwan Pepper / Szechuan Pepper
- FG 293 Sushi-Su Vinegar/Seasoned Rice Vinegar – ingredients may vary slightly so this is only a guide.
- FG 294 Takuan Taro / Pickled Daikon Radish
- FG 295 Tamarind
- FG 296 Tapioca / Casava / Manioc
- FG 297 Tatsoi / Spinach Mustard
- FG 298 Wasabi
- FG 299 Water Chestnut
- FG 300 Yuzu Powder

## **Food - Mushrooms**

### **14 vials**

- FM 01 Mushroom, Buna Shimeji / Brown Beech
- FM 02 Mushroom, Chanterelle
- FM 03 Mushroom, Chestnut
- FM 04 Mushroom, Cultivated, White Button
- FM 05 Mushroom, Enoki
- FM 06 Mushroom, Morel
- FM 07 Mushroom, Oyster Grey and White
- FM 08 Mushroom, Porcini /Porcino /Cep
- FM 09 Mushroom, Portobello Cremini are baby Portobello
- FM 10 Mushroom, Shiro Shimeji
- FM 11 Mushroom, Shitake /Chinese Black
- FM 12 Truffle, Black /Tuber Melanosporum / Perigord / Norcia Pregiato
- FM 13 Truffle, Summer /Tuber Uncinatum
- FM 14 Truffle, White / Tuber Magnatum

# Food - Milk & Milk Substitutes

## 18 vials

Many people have problems with regular cow's milk. Some of these may be able to tolerate one of the three alternative cow's milks

1. unpasteurised milk/raw milk
2. organic cow's milk
3. lactose-free milk
4. A2 milk (not available in some countries); most cows now produce A1 protein in their milk. Historically it was A2 protein that was more common

Many of the milk substitutes are made by several different manufacturers and may contain different additional ingredients. So testing a milk substitute vial can only act as a guide to suitability because a milk vial may test as suitable, but be unsuitable from a specific manufacturer because of additional ingredients (e.g. emulsifiers, sweeteners, etc.)

Or

A milk vial may test as unsuitable, but this is because of additional ingredients included by some manufacturer. It may be wise to do some general testing using this test kit and then ask your client to bring in a specific brand for testing.

### **MK 01 Milk, Almond**

Also contains agave syrup, corn maltodextrin.

### **MK 02 Milk, Buffalo**

### **MK 03 Milk, Coconut**

Also contains grape juice concentrate, calcium phosphate, Sucrose ester, sea salt, natural carotene, vitamins (D2 and B12)

### **MK 04 Milk, Cow**

### **MK 05 Milk, Cow, Organic**

### **MK 06 Milk, Cow, A2**

### **MK 07 Milk, Cow, Lactose-Free**

### **MK 08 Milk, Cow, Unpasteurised/Raw**

### **MK 09 Milk, Goat**

### **MK 10 Milk, Hazelnut**

Also contains agave syrup, corn maltodextrin, sugar, tri-calcium phosphate, sea salt, locust bean gum, gellan gum, sunflower lecithin, vitamins (B2, B12, E, D2).

### **MK 11 Milk, Hemp**

Also contains fruit extract from apple, calcium from seaweed, emulsifier, sucrose ester, sea salt, vitamin D2.

### **MK 12 Milk, Kamut**

Also contains sunflower oil, safflower oil, sea salt.

### **MK 13 Milk, Oat**

Also contains canola/rapeseed oil, salt, sea salt, vitamins (D2, riboflavin, folic acid and B12), calcium.

### **MK 14 Milk, Quinoa**

Also contains agave syrup, corn maltodextrin.

### **MK 15 Milk, Rice**

Also contains sunflower oil, safflower oil, sea salt, calcium phosphate, vitamins (D2 and B12).

### **MK 16 Milk, Sesame**

Also contains agave syrup, corn maltodextrin, sunflower oil.

### **MK 17 Milk, Sheep**

### **MK 18 Milk, Soya**

Also contains sugar, tricalcium phosphate, maltodextrin, sea salt, gellan gum, vitamins (B2, B12, D, E), potassium iodide.

# Food: Flours Test Kit

41 vials

## A comprehensive list of flour including many gluten-free ones.

- F FL 01 Almond Flour, Organic
- F FL 02 Amaranth Flour / Szarlat, Organic
- F FL 03 Barley Flour  
Contains gluten.
- F FL 04 Buckwheat Flour  
Buckwheat is in the rhubarb botanical family, so does not contain gluten, in spite of its name.
- F FL 05 Buckwheat Flour, Organic  
Buckwheat is in the rhubarb botanical family, so does not contain gluten, in spite of its name.
- F FL 06 Cassava Flour  
Tapioca and cassava flour both originate from the cassava root. Tapioca flour only comes from the starch of the root and is then bleached. Cassava contains more vitamin C and is less processed overall.
- F FL 07 Chestnut Flour, Organic
- F FL 08 Chia Flour
- F FL 09 Chickpea / Garbanzo / Gram Flour
- F FL 10 Coconut Flour, Organic
- F FL 11 Coffee Flour  
From the fruit of the coffee bean; can be used to make bread, cakes, etc.
- F FL 12 Corn Flour/ Corn Meal, Yellow
- F FL 13 Corn Flour/ Corn Meal, Yellow, Organic
- F FL 14 Green Banana Flour
- F FL 15 Hemp Seed Flour
- F FL 16 Lupin Flour, Raw, Organic  
Carries the same protein that causes allergic reactions/anaphylaxis to peanut or legumes, which makes it unsuitable for people with peanut or legume allergies e.g. soybeans.
- F FL 17 Millet Flour
- F FL 18 Oat Flour  
Normally gluten-free, unless contaminated during processing.
- F FL 19 Peanut Flour, Reduced Fat
- F FL 20 Potato Flour, Organic
- F FL 21 Quinoa Flour, Organic
- F FL 22 Rice Flour, Brown, Organic
- F FL 23 Rice Flour, White
- F FL 24 Rice Flour, White, Organic
- F FL 25 Rye Flour  
Contains gluten.
- F FL 26 Rye Flour, Dark, Organic  
Contains gluten.
- F FL 27 Sesame Flour, Organic
- F FL 28 Sorghum Flour / Juwar Flour / Jowar Flour
- F FL 29 Soya Bean Flour / Soy Flour
- F FL 30 Spelt Flour, Organic  
Contains gluten.
- F FL 31 Spelt Flour, Wholemeal, Organic  
Contains gluten.
- F FL 32 Tapioca Flour, Organic  
Tapioca and cassava flour both originate from the cassava root. Tapioca flour only comes from the starch of the root and is then bleached. Cassava contains more vitamin C and is less processed overall.
- F FL 33 Teff Flour, Brown
- F FL 34 Teff Flour, Brown Organic
- F FL 35 Teff Flour, White
- F FL 36 Teff Flour, White, Organic
- F FL 37 Tiger Nut Flour
- F FL 38 Wheat Flour, White  
Contains gluten.
- F FL 39 Wheat Flour, White, Organic, Unbleached  
Contains gluten.
- F FL 40 Wheat Flour, Wholemeal  
Contains gluten.
- F FL 41 Wheat Flour, Wholemeal, Organic  
Contains gluten.

# Food - Pulses Test Kit

## 19 vials

*16 beans/pulses plus soya bean (in two forms) plus a mixed vial containing all of them.*

3 of the vials are also found in Foods A to E. The price of this kit takes that into account.

- FPU1 Azuki/Adzuki Bean
- FPU2 Black Eyed Bean
- FPU3 Black Turtle Bean
- FPU4 Brown Bean
- FPU5 Butter Bean
- FPU6 Cannellini Bean
- FPU7 Chana Dal
- FPU8 Chickpea
- FPU9 Flageolet Bean
- FPU10 Haricot Bean
- FPU11 Kidney Bean / Red Bean
- FPU12 Lentil: Brown Whole
- FPU13 Lima Bean
- FPU14 Mung Bean
- FPU15 Pigeon Pea / Gungo Pea / Cajan
- FPU16 Pinto Beans
- FPU17 Soya Bean, Flour
- FPU18 Soya Bean, Organic
- FPU19 Mixed vial containing all of above**

# Food Toxins Test Kit

## 10 vials

**This kit is based on the work of Michael Lebowitz, DC**

### **Albumin / Ovalubin**

Egg protein, highly allergic.

### **Caffeine**

Potentially toxic stimulants found in coffee, tea, chocolate, cola, guarana, yerba mate, acai berries.

### **Casein**

Dairy protein, highly allergic.

### **Gliadin**

Component of gluten that is problematic for a high % of the population.

### **Lactose**

Sugar found mainly in milk; many people are lactose intolerant.

### **Paraxanthine/ 1,7-Dimethylxanthine**

Potentially toxic stimulants found in coffee, tea, chocolate, cola, guarana, yerba mate, acai berries.

### **Solanine/Alpha Solanine**

Naturally occurring neuro-toxin in members of the nightshade family, acts as an acetylcholinesterase inhibitor.

### **Theobromine**

Potentially toxic stimulants found in coffee, tea, chocolate, cola, guarana, yerba mate, acai berries.

### **Theophylline**

Potentially toxic stimulants found in coffee, tea, chocolate, cola, guarana, yerba mate, acai berries.

### **Zein**

Corn protein, highly allergic.

# Food: Vegetable Oils Test Kit

29 vials

**Various oils used in cooking and processed food, including corn oil, groundnut oil, sunflower oil and rapeseed/canola oil.**

**Products sold as “vegetable oil” sold in supermarkets can come from various sources. Manufacturers will use different combinations of oils at different times.**

**Many of the oils are also used as carrier oils in massage.**

**VO 1 Almond Oil**

Limited use in cooking, but also used as a massage oil and in skin care preparations.

**VO 2 Almond Oil, Sweet Organic**

**VO 3 Argan Oil**

Used in cooking especially in Morocco, also in cosmetics and taken as a nutritional supplement.

**VO 4 Avocado Oil**

Used in cooking and in personal care products and cosmetics.

**VO 5 Coconut Oil**

Used in baked goods, pastries, confectionery, and sautés. Also used in non-dairy creamers and snack foods including popcorn. Has become increasingly popular in health and natural food circles.

**VO 6 Coconut Oil, Virgin, Organic**

**VO 7 Corn Oil**

One of the most common cooking oils; also used in salad dressing, margarine, mayonnaise, prepared goods like spaghetti sauce and baking mixes, and to fry prepared foods like potato chips and French fries.

**VO 8 Cottonseed Oil**

A major food oil, often used in industrial food processing. Margarine, shortening, salad dressings, commercially fried products.

**VO 9 Ghee**

Clarified butter that originated in India and is commonly used in South Asian (Indian, Bangladeshi, Nepali, Sri Lankan, and Pakistani) cuisine and ritual. (Not strictly a vegetable oil, but used in the same way in some countries.)

**VO 10 Rapeseed Oil**

Used in cooking and cosmetics.

**VO 11 Groundnut Oil / Peanut Oil / Arachis Oil**

Often used in Chinese, South Asian and Southeast Asian cuisine. Used to make soap.

**VO 12 Hazelnut Oil**

**VO 13 Macadamia Oil**

Used in cooking (particularly in Australia); also used in cosmetics.

**VO 14 Mustard Seed Oil**

Often used for cooking in North India, Eastern India, Nepal, Bangladesh and Pakistan.

**VO 15 Olive Oil**

Used in cooking, cosmetics and soaps.

**VO 16 Olive Oil, Organic**

**VO 17 Palm Oil**

Widely used in the commercial food industry. A common home cooking ingredient in the tropical belt of Africa, Southeast Asia and parts of Brazil.

**VO 18 Rapeseed/Canola Oil**

One of the most widely used cooking oils.

**VO 19 Rice Bran Oil**

Popular as a cooking oil in several Asian countries, including Japan and China. Also used in cosmetics, confectionery, shoe creams and polishing compounds. Used in the preparation of vegetable (non-butter) ghee.

**VO 20 Safflower Oil**

**VO 21 Safflower Oil, Organic**

**VO 22 Sesame Oil**

Used as a cooking oil in South India, it is often used as a flavor enhancer in Chinese, Japanese, Middle Eastern, Korean, and Southeast Asian cuisine. Used in Ayurvedic medicine.

**VO 23 Sesame Oil, Organic**

**VO 24 Sesame Oil, Toasted**

**VO 25 Soybean Oil/ Soya Bean Oil**

Accounts for about half of worldwide edible oil production. Also used as a base for some printing inks and oil paints.

**VO 26 Soybean Oil/ Soya Bean Oil, Organic**

**VO 27 Sunflower Oil**

A common cooking oil.

**VO 28 Sunflower Oil, Organic**

**VO 29 Walnut Oil**

Mainly used in cold dishes and salad dressings.



# Food Test Kit Vials arranged alphabetically

*FA = Food A; FB = Food B; FC = Food C; FD = Food D; FE = Food E; FF = Food F; FG = Food G*  
*FPU = Food Pulse; MK =Milks; FM = Mushrooms, FT = Food Toxins, VO = Vegetable Oils, FL = Flours*

FG 251 Acacia Leaves	FB 62 Brazil nut
FF 226 Acai Berry, Organic	FB 108 Brewers Yeast
FG 252 Agar	FB 63 Broad Beans
FF 227 Agave Nectar	FC 114 Broccoli
FT 01 Albumin / Ovalubin	FF 232 Broccoli Seed Powder
MK 01 Almond Milk	FPU 04 Brown Bean
F FL 01 Almond Flour, Organic	FB 64 Brussel Sprout
VO 1 Almond Oil	FB 65 Buckwheat
VO 2 Almond Oil, Sweet Organic	F FL 04 Buckwheat Flour
FB 57 Almonds	F FL 05 Buckwheat Flour, Organic
F FL 02 Amaranth Flour / Szarlat, Organic	MK 02 Buffalo Milk
FG 258 Amomum Tsaoko	FA 6 Butter
FC 109 Anchovy in brine	FPU 05 Butter Bean
FA 1 Apple	FC 150 Butternut Squash
FA 2 Apricot	FB 66 Cabbage
FF 228 Apricot Kernel	FF 233 Cacao Nibs
VO 11 Arachis Oil / Groundnut Oil / Peanut Oil	FT 02/FEB 32 Caffeine
VO 3 Argan Oil	FA 29 Candies, Mixed
FD 159 Asparagus	FG 257 Candle Nut
FC 110 Aubergine	FPU 06 Cannellini Bean
FC 111 Avocado	VO 18 Canola/Rapeseed Oil
VO 4 Avocado Oil	FG 258 Cao Guo
FPU 01 Azuki Bean	FD 187 Cape Gooseberry
FB 107 Bakers Yeast	FD 198 Carambola
FB 58 Baking powder	FD 161 Caraway
FG 253 Bamboo Shoot	FD 162 Cardamom
FA 3 Banana	FB 67 Carob
FG 254 Banana Leaves	FA 7 Carrot
FB 59 Barley	FG 296 Casava
F FL 03 Barley Flour	FT 03 Casein
FF 229 Barley Grass Powder	F FL 06 Cassava Flour
FC 112 Basil	FB 68 Cashew nut
FD 160 Bay Leaf	FA 8 Cauliflower
FG 255 Beansprout	FD 163 Cayenne
FF 230 Bee Pollen	FC 115 Celeriac
FA 4 Beef	FA 9 Celery
FB 60 Beetroot	FG 260 Celery Cabbage
FA 39 Bell Pepper /Peppers	FPU 07 Chana Dal
FG 277 Betel Leaf	FG 258 Chao Kuo
FPU 02 Black Eyed Bean	FA 10 Cheese, Cow's
FG 256 Black Fungus	FE 201 Cheese, Goat's
FPU 03 Black Turtle Bean	FE 202 Cheese, Sheep
FB 61 Blackberry: wild	FC 116 Cheese, vegetarian
FA 5 Blackcurrant	FC 117 Cherries
FF 231 Blue Green Algae	FD 164 Chestnut
FC 113 Blueberry	F FL 07 Chestnut Flour, Organic
8091 Bonsoy Soy Milk	F FL 08 Chia Flour

FA 11 Chicken  
 FB 69/FPU 08/F FL09 Chickpea / Garbanzo /  
 Gram Flour  
 FC 118 Chili, red and green  
 FG 258 Chinese Black Cardamom  
 FG 260 Chinese Cabbage  
 FG 259 Chinese Chives  
 FG 261 Chinese Flowering Cabbage  
 FG 260 Chinese Leaves  
 FD 165 Chives  
 FF 234 Chlorella, Organic  
 FC 120 Chocolate  
 FG 261 Choy Sum  
 FC 119 Cinnamon  
 FD 166 Clementine  
 FG 256 Cloud Ear Fungus  
 FD 167 Cloves  
 FB 70 Cocoa  
 FF 235 Cocoa Butter  
 FB 71 Coconut  
 F FL 10 Coconut Flour, Organic  
 MK 03 Coconut Milk  
 FF 236/ VO 5 Coconut Oil  
 VO 6 Coconut Oil, Virgin, Organic  
 FA 12 Cod  
 FB 72 Coffee: ground  
 F FL 11 Coffee Flour  
 FC 121 Coriander  
 FB 73 Corn: sweet corn  
 FB 74/ F FL 12 Corn Flour/Corn Meal, Yellow  
 F FL 13 Corn Flour/Corn Meal, Yellow, Organic  
 VO 7 Corn Oil  
 VO 8 Cottonseed Oil  
 FA 13 Courgette/Zucchini  
 MK 04 Cow Milk  
 MK 06 Cow Milk, A2  
 MK 07 Cow Milk, Lactose-Free  
 MK 05 Cow Milk, Organic  
 MK 08 Cow Milk, Unpasteurised/Raw  
 FC 158 Cow's Milk Yoghurt  
 FC 122 Crab  
 FC 123 Cranberry  
 FE 203 Crayfish  
 FA 14 Cucumber  
 FG 278 Culantro  
 FC 124 Cumin  
 FG 262 Daikon  
 FG 288 Dashima  
 FB 75 Date  
 FD 168 Dill  
 FG 263 Dragon Fruit  
 FG 264 Drumsticks (Vegetable)  
 FE 204 Duck  
 FF 237 Durian  
 FA 15 Egg  
 FC 110 Egg Plant  
 FE 205 Eggs: Quail  
 FC 125 Endive  
 FG 278 Ergium  
 FD 169 Fennel  
 FB 76 Fig  
 FPU 09 Flageolet Bean  
 FB 69/FPU 08/F FL09 Garbanzo/Gram Flour/Chick-  
 pea  
 FG 265 Galangal  
 FB 82 Galia Melon  
 FA 16 Garlic  
 FG 259 Garlic Chives  
 VO 9 Ghee  
 FC 126 Ginger, fresh  
 FT 04 Gliadin  
 FD 170 Globe Artichoke  
 FB 77 Glucose  
 FC 127 Gluten  
 MK 09 Goat Milk  
 FE 201 Goat's Cheese  
 FC 128 Goat's Milk  
 FE 206 Goji Berry  
 FD 171 Gooseberry  
 FB 69/FPU 08/F FL09 Gram Flour/Chickpea/Garban-  
 zo  
 FA 17 Grape  
 FB 78 Grapefruit  
 VO 10 Grapeseed Oil  
 F FL 14 Green Banana Flour  
 FD 172 Greengage  
 VO 11 Groundnut Oil/Peanut Oil/Arachis Oil  
 FF 238 Guarana  
 FG 266 Guava  
 FC 129 Haddock  
 FG 288 Haidai  
 FE 207 Halibut  
 FA 18 Ham  
 FPU 10 Haricot Bean  
 FA 19 Hazelnut  
 MK 10 Hazelnut Milk  
 VO 12 Hazelnut Oil  
 MK 11 Hemp Milk  
 FF 239 Hemp Protein Powder  
 F FL 15 Hemp Seed Flour  
 FE 208 Hemp Seeds  
 FA 20 Honey  
 FB 79 Hops  
 FD 173 Horseradish  
 FG 267 Jackfruit  
 FG 284 Japanese Pepper

FD 174 Jerusalem Artichoke  
 FE 209 John Dory  
 F FL 28 Juwar Flour/Jowar Flour/Sorghum Flour  
 FG 268 Kaffir Lime Leaves  
 FD 175 Kale  
 MK 12 Kamut Milk  
 FG 252 Kanten  
 FG 257 Kemiri  
 FPU 11 Kidney Bean  
 FA 21 Kiwi Fruit  
 FD 176 Kohl Rabi  
 FG 288 Konbu  
 FG 259 Kow Choi  
 FG 269 Kudzu  
 FD 177 Kumquat  
 FG 269 Kuzu  
 FT 05 / FEB 34 Lactose  
 FC 138 Lady's Finger  
 FA 22 Lamb  
 FC 130 Lambs Lettuce  
 FC 131 Leek  
 FA 23 Lemon  
 FC 132 Lemongrass  
 FB 80 Lentil: brown whole  
 FA 24 Lettuce  
 FG 270 Lily Bulb  
 FPU 13 Lima Bean  
 FD 178 Lime  
 FE 210 Linseed  
 FC 133 Lobster  
 FA 25 Loganberry  
 FG 278 Long Coriander  
 FG 271 Longan  
 FG 272 Lotus Leaf  
 FG 273 Lotus Root  
 FG 274 Lotus Seed  
 FF 240 Lucuma  
 F FL 16 Lupin Flour, Raw, Organic  
 FG 275 Lychee  
 FF 241 Maca Powder  
 FD 179 Macadamia Nut  
 VO 13 Macadamia Oil  
 FD 180 Mace  
 FC 134 Mackerel in brine  
 FB 81 Malt  
 FB 100 Malt Vinegar  
 FD 181 Mandarin  
 FC 135 Mango  
 FG 296 Manioc  
 FF 242 Manuca Honey  
 FE 211 Maple Syrup  
 FD 182 Marjoram  
 FA 26 Marrow  
 FB 82 Melon: Galia  
 FF 243 Mesquite  
 FG 278 Mexican Coriander  
 FA 27 Milk, Cow's  
 FC 128 Milk, Goat's  
 FB 83 Millet  
 F FL 17 Millet Flour  
 FA 28 Mint  
 FG 276 Mirin  
 FA 29 Mixed Sweets  
 FE 212 Molasses, organic  
 FE 213 Monk Fish  
 FG 262 Mooli  
 FPU 14 Mung Bean  
 FA 30 Mushroom  
 FM 01 - FM11 Mushrooms  
 FC 136 Mussel  
 FC 137 Mustard  
 VO 14 Mustard Seed Oil  
 FG 260 Nappa Cabbage  
 FF 244 Nopal Cactus  
 FD 183 Nutmeg  
 F FL 18 Oat Flour  
 MK 13 Oat Milk  
 FB 84 Oats  
 FB 85 Oats, Organic  
 FB 86/ VO 15 Olive Oil  
 VO 16 Olive Oil, Organic  
 FC 138 Okra  
 FE 214 Olives in brine  
 FA 31 Onion  
 FA 32 Orange  
 FD 184 Oregano  
 FT 01 Ovalubin/Albumin  
 FE 215 Oyster  
 FG 277 Paan Leaf  
 FG 278 Pak Che Farang  
 FC 139 Pak Choi  
 VO 17 Palm Oil  
 FG 277 Pan  
 FG 279 Pandan Leaves  
 FG 279 Pandanus  
 FC 140 Papaya  
 FD 185 Paprika  
 FT 06 Paraxanthine/1,7-Dimethylxanthine  
 FA 33 Parsley  
 FA 34 Parsnip  
 FG 280 Parval  
 FG 280 Parwal  
 FD 186 Passion Fruit  
 FC 140 Paw Paw  
 FA 35 Pea  
 FA 36 Peach

FA 37 Peanut	FF 246 Royal Jelly
F FL 19 Peanut Flour, Reduced Fat	FB 92 Runner bean
VO 11 Peanut Oil/Arachis Oil/Groundnut Oil	FB 93 Rye
FA 38 Pear	F FL 25 Rye Flour
FB 59 Pearl Barley	F FL 26 Rye Flour, Dark, Organic
FC 141 Pecan	VO 20 Safflower Oil
FC 142 Pepper, black and white	VO 21 Safflower Oil, Organic
FA 39 Peppers	FD 195 Saffron
FG 281 Persimmon	FC 146 Sage, fresh
FD 187 Physalis	FB 94 Salmon
FG 294 Pickled Daikon Radish	FG 284 Sansyo
FPU 15 Pigeon Pea	FC 147 Sardines in brine
FE 216 Pilchard in olive oil	FD 196 Satsuma
FD 188 Pine Nut	FE 219 Scallops
FA 40 Pineapple	FG 279 ScrewPine
FPU 16 Pinto Beans	FE 220 Sea Bass
FD 189 Pistachio Nut	FE 221 Sea Bream
FA 41 Plaice	FG 293 Seasoned Rice Vinegar
FA 42 Plum	FG 285 Seaweed, Arame
FG 280 Pointed Gourd	FG 286 Seaweed, Dulse
FE 217 Pollock	FG 287 Seaweed, Hijiki
FD 190 Pomegranate	FG 288 Seaweed, Kombu
FD 191 Poppy Seeds Blue and White	FG 289 Seaweed, Nori
FA 43 Pork	FG 290 Seaweed, Wakame
FA 44 Potato	F FL 27 Sesame Flour, Organic
F FL 20 Potato Flour, Organic	MK 16 Sesame Milk
FA 45 Prawns	VO 22 Sesame Oil
FF 245 Propolis	VO 23 Sesame Oil, Organic
FA 46 Pumpkin Seed	VO 24 Sesame Oil, Toasted
F FL 21 Quinoa Flour, Organic	FA 48 Sesame Seeds
MK 14 Quinoa Milk	FG 291 Shaoxing Rice Wine
FC 143 Quinoa, Organic	MK 17 Sheep Milk
FC 144 Raddichio	FE 202 Sheep's Cheese
FB 87 Radish	FE 222 Sheep's Milk
FG 282 Rambutan	FE 223 Sheep's Milk Yoghurt
FG 279 Rampe	FG 292 Sichuan Pepper
VO 18 Rapeseed/Canola Oil	FT 07 Solanine/Alpha Solanine
FB 88 Raspberry	F FL 28 Sorghum Flour/Juwar Flour/Jowar Flour
FD 192 Red Cabbage	FC 148 Sorrel
FD 193 Red Currant	FPU 18 Soya Bean, Organic
FG 283 Red Fermented Bean Curd	FB 95 / F FL 29 Soya Bean Flour/Soy Flour
FE 218 Red Mullet	VO 25 Soybean Oil/Soya Bean Oil
FA 47 Rhubarb	VO 26 Soybean Oil/Soya Bean Oil, Organic
FB 89 Rice, Long Grain, White	MK 18 Soya Milk
FB 90 Rice, Short Grain, White	FC 149 / F FL 30 Spelt Flour, Organic
FB 91 Rice, Long Grain, Brown, Organic	F FL 31 Spelt Flour, Wholemeal, Organic
VO 19 Rice Bran Oil	FA 49 Spinach
F FL 22 Rice Flour, Brown, Organic	FG 297 Spinach Mustard
F FL 23 Rice Flour, White	FF 247 Spirulina Powder
F FL 24 Rice Flour, White, Organic	FC 150 Squash, butternut
MK 15 Rice Milk	FC 151 Squid
FC 145 Rocket	FD 197 Star Anise
FD 194 Rosemary	FD 198 Star Fruit

FA 50	Strawberry	FB105	Wheat flour, White, Self-raising
FB 96	Sugar: beet	F FL 40	Wheat Flour, Wholemeal
FB 97	Sugar: cane	FB 106 / F FL 41	Wheat Flour, Wholemeal, Organic
FB 98	Sugar: demerara	FF 248	Wheat Grass Powder
FB 99	Sultana	FG 262	White Radish
VO 27	Sunflower Oil	FB 101	White wine vinegar
VO 28	Sunflower Oil, Organic	FG 256	Wood Ear Fungus
FA 51	Sunflower Seeds	FF 249	Xylitol
FG 293	Sushi-Su Vinegar	FF 250	Yacon Syrup
FB 73	Sweet Corn	FC 157	Yam
FC 152	Sweet Potato	FB 107	Yeast: Bakers
F FL 02	Szarlat/Amaranth Flour, Organic	FB 108	Yeast: Brewers
FG 292	Szechuan Pepper	FC 158	Yoghurt: Cow's Milk
FG 292	Szechwan Pepper	FG 300	Yuzu Powder
FG 294	Takuan Taro	FT 10	Zein
FG 295	Tamarind	FA 13	Zucchini/Courgette
FD 199	Tangarine		
FG 296	Tapioca		
F FL 32	Tapioca Flour, Organic		
FC 153	Tarragon, fresh		
FG 297	Tatsoi		
F FL 33	Teff Flour, Brown		
F FL 34	Teff Flour, Brown Organic		
F FL 35	Teff Flour, White		
F FL 36	Teff Flour, White, Organic		
FG 278	Thai Parsley		
FT 08	Theobromine		
FT 09	Theophylline		
FC 154	Thyme, fresh		
F FL 37	Tiger Nut Flour		
FE 224	Tofu		
FA 52	Tomato		
FG 256	Tree Ear Fungus		
FC 155	Trout		
FM 12 -FM14	Truffle		
FG 258	Tsaoko Fruit		
FA 53	Tuna		
FA 54	Turkey		
FC 156	Turmeric		
FEB 35	Vanillin		
FE 225	Venison		
FB 100	Vinegar: malt		
FB 101	Vinegar: white wine		
FB 102	Walnut		
VO 29	Walnut Oil		
FG 298	Wasabi		
FG 299	Water Chestnut		
FD 200	Water Melon		
FA 55	Watercress		
FB 103 -106	Wheat flour		
FB 103 / F FL 38	Wheat Flour, White		
FB 104 / F FL 39	Wheat Flour, White, Organic, Unbleached		

# Food Phenolic Compounds Test Kit

## 14 vials

*The energy patterns of phenolics. An allergy to a whole range of foods may be an allergy to an underlying food phenolic.*

Phenolic food compounds (also known as aromatic food compounds) occur naturally in all foods: they give the food colour and flavour and help to prevent premature decomposition.

### FP1 **Apiol**

Occurrences: beef, cheese, chocolate, milk, oranges, peas, black pepper, soybeans, tomatoes, almonds, carrot, celery, lettuce, parsley, walnut, bay leaf, lemon.

Correlations: irregular menses, amenorrhea, menopausal flushing, breast tenderness, itching of skin, obesity, chronic fatigue, elbow pain.

### FP2 **Caffeic Acid**

Occurrences: grass pollen, apple, artichoke, beans, carrot, cauliflower, grape, lettuce, olives, coffee.

Correlations: sinus congestion, headache, indigestion, joint pains, dizziness and tingling and numbness of extremities.

### FP3 **Cinnamic Acid**

Occurrences: fruit, cheese, lettuce, tomatoes, clover pollen, sagebrush pollen; used as a flavouring, and in perfumes, cosmetics and medicinal products to give a spicy, oriental perfume; also used to make synthetic indigo dye.

Correlations: acne, eczema, psoriasis, bladder problems, chronic fatigue, hypoglycaemia, chest constriction, craving for fruit, headache, indigestion, sore throat.

### FP4 **Coumarin**

Occurrences: wheat, rice, barley, corn, soy, cheese, beef, eggs, clover pollen, grass pollen.

Correlations: asthma, arthritis, low back pain, cervical neck pain, non-specific pruritis, chronic fatigue, abdominal bloating, ear congestion.

### FP5 **Eugenol**

Occurrences: foods, perfumes, dental practice including in analgesics, cloves, cinnamon, pimento. Correlations: chronic urticaria.

### FP6 **Gallic Acid**

Occurrences: milk, apple, apricot, banana, barley, beans, beer, cashew nut, cheese, cocoa, egg, crab, cucumber, garlic, ginger, grape, olives, papaya, peach, peanut, pear, pineapple, potato, tea, tomato, wheat, yeast, food colourings.

Correlations: hyperactivity, ADHD, dyslexia, arthritis, low back problems, sciatica, chronic severe chest pain, nasal congestion, allergic rhinitis, sinusitis, headaches, dyspepsia, itching, chronic fatigue.

### FP7 **Indole**

Occurrences: in all complete proteins, especially milk, clover pollen.

Correlations: bowel problems, asthma, sinus problems, mental disorientation, craving for milk, headaches, chronic fatigue.

### FP8 **Kaempferol**

Occurrences: grass pollen, some flower pollens, widely distributed in fruit, tomatoes.

### FP9 **Phenyl Isothiocyanate**

Occurrences: chicken, eggs, beef, cheese, lamb, peanuts.

Correlations: chronic arrhythmia, hypertension, arteriosclerosis, migraine headaches, hyperthyroidism, shoulder bursitis, burning arm pains, joint pains, chest constriction, heartburn, headaches, sinus congestion, tingling arms and legs.

### FP10 **Phloridzin / Phlorizin / Phloridzite**

Occurrences: beef, cheese, beet sugar, soy, apples, strawberries.

Correlations: diabetes, collagen disease, active cancer, mood swings, light headedness, low back pain, headaches, shoulder pain, drowsiness and tiredness.

### FP11 **Piperine**

Occurrences: beef, beet sugar, chicken, eggs, lamb, milk, tuna, turkey, yeast, black pepper, tomato, potato.

Correlations: arthritis, burning skin and face, chest congestion, sneezing.

### FP12 **Pyrrole / Pyrole**

Occurrences: found in chlorophyll so widely distributed in plants.

Correlations: chronic abdominal discomfort, mood swings, anxiety, depression, multiple sclerosis, skin rashes.

### FP13 **Rutin**

Occurrences: clover pollen, grass pollen, ragweed pollen.

Correlations: joint pain, bruising, sinus congestion, constipation, hay fever, irritability.

### FP14 **Tyramine**

Occurrences: beer, red wines, some cheese, bananas, red plums, figs, raisins, avocados, some beans, aubergine / eggplant, pickled herring, canned meats, salami, yoghurt, soup cubes, commercial gravies, chocolate, and soy sauce.

Correlations: migraine.



# Food Additive A Test Kit

## 31 vials

*The energy patterns of artificial food colourings, preservatives, monosodium glutamate, antioxidants, artificial sweeteners, etc.*

**FEA1 E102 Tartrazine / FD & C Yellow No 5 / Food Yellow 4 / CI 19140**

Typical products: soft drinks, ice cream, confectionery, fish fingers, cakes, biscuits, perfume, shampoo, skin care products and cosmetics.

**FEA2 E104 Quinoline Yellow/ Food Yellow 13 /CI 470005**

Typical products: confectionery, soft drinks.

**FEA3 E110 Sunset Yellow / Orange Yellow 5 / FD & C Yellow No. 6 / Food Yellow 3 / CI 15985**

Typical products: confectionery, yoghurts, packet bread crumbs, jam.

**FEA4 E122 Carmosine / Azorubine / Food Red 3 / CI 14720**

Typical products: confectionery, yoghurts, ices.

**FEA5 E123 Amaranth / FD & C Red 2 / Food Red 9 / CI 16185**

Typical products: confectionery.

**FEA6 E124 Ponceau 4R / Cochineal Red / Food Red 7 / CI 16255**

Typical products: confectionery.

**FEA7 E127 Erythrosine / FD & C Red 3 / Food Red 14 / CI 45430**

Typical products: glacé cherries, custard mix, tinned meat.

**FEA8 E128 Red 2G**

Typical products: sausages, jams.

**FEA9 E131 Patent Blue V / Food Blue 5 / CI 42051**

Typical products: scotch eggs.

**FEA10 E132 Indigo Carmine / Indigotine / FD & C Blue No 2 / Food Blue 1 / CI 73015**

Typical products: confectionery.

**FEA11 E133 Brilliant Blue FCF / FD & C Blue No 1 / CI 42090**

Typical products: confectionery, tinned processed peas, perfume and cosmetics.

**FEA12 E142 Green S / Acid Brilliant Green BS / Lissamine Green / Food Green 4 /CI 44090**

Typical products: confectionery, tinned peas, packet bread crumbs, mint jelly.

**FEA13 E151 Black PN / Brilliant Black BN / Food Black 1 / CI 28440**

Typical products: black currant cheese cake, brown sauce, chocolate mousse.

**FEA14 E154 Brown FK / Chocolate Brown FK**

Typical products: kippers, smoked mackerel, crisps, cooked ham.

**FEA15 E155 Brown HT / Chocolate Brown HT / CI 20285**

Typical products: chocolate flavour cakes.

**FEA16 E160a Beta-Carotene**

Typical products: tinned soup, soft drinks, salad cream, mayonnaise, ice cream, margarine.

**FEA17 E202 Potassium Sorbate**

Typical products: soft drinks, cakes, ready prepared sandwiches, wine.

**FEA18 E210 Benzoic Acid**

Typical products: jam, beer, salad cream, margarine, manufacture of sodium benzoate, alkyd resins, plasticizers, dyestuffs pharmaceuticals.

**FEA19 E211 Sodium Benzoate**

Typical products: soft drinks, salad dressing, barbecue sauce, body wash, shampoo, mouth wash.

**FEA20 E223 Sodium Metabisulphate**

Typical products:lemon juice, pickles, orange squash, carton salad, alcohol, home brewing and wine making.

**FEA21 E296 Malic Acid**

Typical products: soft drinks, cereal bars, fruit pie fillings.

**FEA22 E320 Butylated Hydroxyanisole/ BHA**

Typical products: confectionery, stock cubes, mayonnaise, mascara.

**FEA23 E321 Butylated Hydroxytoluene/ BHT**

Typical products: body wash, face wash cream, perfume, blusher, mascara, shaving cream, after shave.

**FEA24 E330 Citric Acid**

Typical products: soft drinks, instant potato, jams, jellies, mustard, confectionery, yoghurt, cereal bars, cheese & onion rolls, hair conditioner, shampoo, body wash, baby bath, cleanser, foundation, after shave, cough mixtures, cough lozenges, descaling cleaners.

**FEA25 E331 Sodium Citrate**

Typical products: jams, jellies, soft drinks, confectionery, shampoo.

**FEA26 E334 Tartaric Acid**

Typical products: cakes, baking powder, jams.

**FEA27 E466 Sodium Carboxy Methylcellulose**

Typical products: ice cream, cakes, puddings, soft drinks, toothpaste, suspending and dispersing agent in drugs.

**FEA28 E500 Sodium Bicarbonate**

Typical products: biscuits, cakes, antacids.

**FEA29 E621 Monosodium Glutamate**

Typical products: processed meat products, gravy powder, stock cubes, tinned soup, packet sauce, crisps

**FEA30 E951 Aspartame**

Typical products: fruit squash, fizzy drinks, low-calorie foods.

**FEA31 E954 Saccharin**

Typical products: fruit squash, fizzy drinks, low-calorie foods, pot noodles, toothpaste.

## **Food Additive B Test Kit**

### **25 vials**

*The energy patterns of caffeine, lactose, sorbitol, pectin, vanillin, titanium dioxide, guar gum, gum acacia, xanthan gum, etc. 25 vials.*

**FEB32 Caffeine**

Typical products: soft drinks, sports drinks, tea, coffee, cola drinks, pain relief drugs, tonics.

**FEB33 Dimethyl Dicarbonate**

Typical products: soft drinks.

**FEB34 Lactose**

Typical products: cows milk, goats milk, sheep's milk, packet sauce, chocolate, antacid preparations.

**FEB35 Vanillin**

Typical products: chocolate, cakes, desserts, yoghurt, perfume.

**FEB36 Wood Distillate**

Typical products: smoke flavour foods.

**FEB 37 E100 Curcumin**

Typical products: ice cream, confectionery, margarine.

**FEB38 E171 Titanium Dioxide**

Typical products: confectionery, toothpaste, sunscreen, gelatine capsules for nutritional supplements, lipstick, foundation, mascara, paint pigment, printing ink, filler for paper and plastics.

**FEB39 E222 Sodium Hydrogen Sulphite**

Typical products: instant potato.

**FEB40 E250 Sodium Nitrite**

Typical products: tinned meat products.

**FEB41 E260 Acetic Acid**

Typical products: chutney, cakes, cough tincture, rheumatic liniment, antiseptic skin applications, wart and corn ointment, fumes from silicone sealants curing.

**FEB42 E270 Lactic Acid**

Typical products: meat extracts, pickled onions, margarine, cheese & onion roll, cleansing lotion, toning lotion, eye gel, shampoo, pre-shave lotion, vaginal douches, wart treatments, sports drinks, a chemical intermediate, in textile finishing and in leather tanning, manufacture of a bread additive.

**FEB43 E300 Ascorbic Acid/ Vitamin C**

Typical products: instant potato, soft drinks, mustard, bread.

**FEB44 E322 Lecithin**

Typical products: cakes, confectionery, gravy granules, margarine, cereal bars, instant powdered products.

**FEB45 E338 Phosphoric Acid**

Typical products: soft drinks, rust remover.

**FEB46 E400 Alginic Acid**

Typical products: ice cream, cheese, milk shakes, salad dressings, coating for fish and meat, stabilise fruit juice and foam on beer, medicines, dressing on textiles.

**FEB47 E401 Sodium Alginate**

Typical products: cakes, ice cream, cereal bars, stabilise fruit juice and foam on beer.

**FEB48 E407 Carrageenan**

Typical products: salad dressings, ice cream, cakes, toothpaste, shaving cream.

**FEB49 E410 Locust Bean Gum/ Carob Gum**

Typical products: ice cream, soft cheese, sausages.

**FEB50 E412 Guar Gum**

Typical products: ice cream, salad cream, mayonnaise, milk shakes.

**FEB51 E414 Gum Acacia**

Typical products: soft drinks, emulsifying and suspending agent in drugs, manufacture of plasters, as an adhesive.

**FEB52 E415 Xanthan Gum**

Typical products: soft drinks, mustard, salad dressings, mayonnaise, sauces, confectionery, hot chocolate drinks, cereal bars, moisturiser, cleansing lotion, foundation, toothpaste.

**FEB53 E420(i) Sorbitol**

Typical products: medicinal syrups and cough mixtures, low-calorie foods, toothpaste, manufacture of ascorbic acid, various surface active agents, pharmaceuticals, cosmetics, adhesives, polyurethane foams, etc.

**FEB54 E440(a) Pectin**

Typical products: jam, jellies, biscuits, yoghurt, frozen desserts, salad dressings, dental adhesives, diarrhoea preparations, cosmetics.

**FEB55 E491 Sorbitan Monostearate**

Typical products: dried yeast, cakes, desserts, liquid tea concentrates.

**FEB56 E903 Carnauba Wax**

confectionery, furniture polish and varnish, mascara.

# Fragrance Test Kit

## 27 vials

*The energy patterns of synthetic fragrances used in perfumes, personal care products and household products.*

Exposure to perfume occurs not only because of perfume the person uses themselves, but also those used by other people, and encountered in shops and household products.

It is easy to think of perfumes as only being used in perfumes, air fresheners and similar products, but perfumes (often a mixture of many different synthetic products) are added to a whole range of products: cosmetics, personal care products, detergents and household cleaning agents, etc.

The finished product will not necessarily have a strong smell, because the perfume may have been added to disguise the unpleasant smell of active ingredients, e.g. in hair dyes.

Many chemicals used as fragrances are also used as flavourings in food, drink and medicines.

*95% of chemicals used in fragrances are synthetic compounds derived from petroleum. Although natural sources of some of the chemicals are listed below this does not mean that industrial production is normally from natural sources.*

### FR1 **Allantoin**

Found naturally in: comfrey.

In perfume and some personal care products.

### FR2 **Amylcinnamaldehyde**

Floral or apple fragrance; a commonly used synthetic perfume present in a wide range of personal care and household products.

### FR3 **Balsam Of Peru**

A flavouring used in tobacco, drinks and food, and a fixative and fragrance in perfumes; gives a pine fragrance; may cause contact dermatitis.

### FR4 **Benzaldehyde**

Sweet, bitter, sharp, almond and cherry fragrance; many synthetic perfumes are derived from this chemical.

### FR5 **Benzophenone Diphenylmethanone/ Phenyl ketone/Diphenyl ketone/ Benzoylbenzene**

A rose or geranium-like fragrance; widely used.

### FR6 **Benzyl Acetate**

Found naturally in: jasmin.

Widely used in perfumed products to give a 'floral smell'.

### FR7 **Benzyl Alcohol / Phenylmethanol**

Found naturally in: jasmine, hyacinth, ylang-ylang.

Used in manufacture of synthetic perfumes and flavourings; found in cosmetics, personal care products and in ointments; also used as a photographic developer for colour film, as an embedding material in microscopy, and as an industrial solvent; used as a preservative for injectable drugs, and in contact lens cleaners.

### FR8 **Camphor**

Gives a spicy, minty or woody perfume; also used as a plasticiser.

### FR9 **Cineole/ Eucalyptol**

Eucalyptus, minty, herbal, rosemary fragrance; also used to mask unpleasant odours.

### FR10 **b-Citronellol**

Found naturally in: basil, citronella, eucalyptus, geranium, lemon zest, melissa, rose.

A common artificial perfume; Found in personal care products, cosmetics and household products.

### FR11 **Diethyl Maleate**

Fragrance of green apples; may cause contact dermatitis.

### FR12 **Ethyl Acetate**

Dry, fruity, musty, pineapple fragrance; found in perfumes, perfumed products, nail polishes, and nail polish removers; also used industrially as a solvent for varnishes, lacquers and nitrocellulose, and in the manufacture of rayon and leather and photographic films; used in decaffeination of tea and coffee; in Australia, allowed as a carrier for food flavourings.

**FR13 Geraniol**

Found naturally in: citronella, coriander, eucalyptus, geranium, melissa, neroli.

A synthetic chemical used as a general purpose perfume (rose and geranium) and flavouring (apple, blueberry, cherry, grapefruit, lemon, lime, orange, peach, pineapple, watermelon) in food, personal care products, cosmetics and household products.

**FR14 Hydroxycitronellal**

Widely used to impart a floral perfume in personal care products and cosmetics; also used as a flavouring in food; may be found in some antiseptics and insecticides; may cause contact dermatitis.

**FR15 Isoeugenol**

Used to give a blossom-like or oriental-type fragrance; commonly used perfume in personal care products; also used in the manufacture of vanillin.

**FR16 Isopropyl Acetate**

Used as a solvent for perfume; found in cleaning fluids, printing ink, cosmetics and personal care products.

**FR17 Limonene**

Found naturally in: angelica, grapefruit, juniper, mandarin, orange.

Lemon-orange fragrance; used as a raw material for the chemical synthesis of terpene, adhesives and flavourings (e.g. menthol), so a common ingredient in perfumed products.

**FR18 Linalool**

Found naturally in: basil, bergamot, cinnamon, laurel, lavender, clary sage, coriander, neroli, petitgrain, rosewood, thyme, ylang ylang.

A floral scent with a touch of spiciness; one of the most frequently used perfumes; may be from natural sources or synthetic; found in personal care products, cosmetics and household products.

**FR19 Methyl Salicylate**

Found naturally in: wintergreen, birch.

Used in perfume; also found in artificial flavours, sports rubs and pain relief creams.

**FR20 Myrcene**

Found naturally in: bay, juniper, lemongrass, spearmint, hops, orange zest.

Widely used in personal care products.

**FR21 Nerol**

Found naturally in: clove, neroli.

Widely used in personal care products.

**FR22 Oak Moss**

A 'masculine' perfume derived from lichen; used in men's personal care products and earthy, woody perfumes.

**FR23 Ocimene**

A widely used perfume in cosmetics, personal care products and household products.

**FR24 Phenethyl Alcohol**

Found naturally in: rose, neroli, ylang-ylang, carnation, geranium.

Used extensively in perfumed products and in soap.

**FR25 Pinene**

Found naturally in: frankincense, juniper, marjoram, nutmeg, parsley, pine needles, rosemary, carrot seed.

Fresh, sweet, pine, woody fragrance; widely used in personal care products.

**FR26 Terpinene**

Widely used in personal care products.

**FR27 Terpeneol**

Found naturally in: cajuput, eucalyptus, lime zest, marjoram, rosewood.

Widely used in perfumed products.

# Fungi 1 Test Kit

(including Protozoa, Rickettsia & Chlamydia)  
30 vials

*The energy patterns of 3 types of candida, chlamydia psittaci, giardia lamblia, malaria, trichomonas vaginalis, 2 types of aspergillus, the fungi which cause athlete's foot and ringworm, etc.*

**More Candida species are available in the Candida Test Kit.**

Some definitions.

## **Fungus:**

Simple parasitic life forms which cause illness by direct poisoning, toxic by-products, allergic reactions and/or colonisation of body tissues.

## **Protozoa:**

The simplest, most primitive type of animal, consisting of a single cell.

## **Rickettsia:**

A type of parasitic micro-organism. They resemble bacteria but are only able to replicate by invading the cells of another life form; rickettsiae are parasites of ticks, lice, etc., which can transmit the rickettsiae to humans via their bite or contaminated faeces.

## **Chlamydia:**

Micro-organisms are bigger than viruses and smaller than bacteria; like viruses they can only multiply by first invading the cells of another life-form; otherwise more like bacteria and are susceptible to antibiotics.

**Nosocomial infection:** contracted in hospital.

**Mycotoxins:** produced by moulds & have the potential for both acute and chronic health effects via ingestion, skin contact, and inhalation. These toxins can enter the blood stream and the lymphatic system. They inhibit protein synthesis, damage macrophage systems, inhibit particle clearance of the lung, and increase sensitivity to bacterial endotoxin. **We also sell a Mycotoxin Test Kit.**

## **FU1 Aflatoxins**

Medically recognized possible symptoms & effects: acute liver damage, liver cirrhosis, liver cancer.

Poisonous alkaloids produced by aspergillus flavus. Exposure usually via contaminated grain, dried fruit and peanuts, but can also be on animal products. Carcinogenic to humans.

## **FU2 Aspergilla Fumigatus**

Medically recognized possible symptoms & effects coughing and wheezy attacks, bronchiectasis, aspergilloma, invasive aspergillosis.

Fungus

Found in soil, dust and decaying vegetable matter.

## **FU3 Aspergilla Niger**

Medically recognized possible symptoms & effects: coughing and wheezy attacks, bronchiectasis, aspergilloma, invasive aspergillosis.

Fungus

Found in soil, dust and decaying vegetable matter. Used in the production of citric acid, E310, E311 and E312.

## **FU4 Balantidium Coli**

Medically recognized possible symptoms & effects: asymptomatic, diarrhoea.

Protozoa

## **FU5 Candida Albicans**

Medically recognized possible symptoms & effects: most commonly affects the vagina (thick, white discharge), but also affects other mucous membranes, such as inside the mouth (sore, raised patches), or moist skin. (itchy red rash with flaky white patches); may also affect the intestinal tract.

Fungus

Diabetes and the hormonal changes in pregnancy or when taking oral contraceptives may encourage it; some women with vaginal candida have no symptoms.

## **FU6 Chlamydia Psittaci / Chlamydophila Psittaci**

Medically recognized possible symptoms & effects: psittacosis, pneumonia, hepatitis, possibly linked to heart disease.

Chlamydia

Inhalation of dust from faeces of contaminated birds.



**FU7 Chlamydia Trachomatis**

Medically recognized possible symptoms & effects: non-specific urethritis, fever, tonsillitis/ pharyngitis, otitis media, conjunctivitis, pneumonia, chronic salpingitis, possibly linked to heart disease.

Chlamydia

**FU8 Coxiella Burnetii**

Medically recognized possible symptoms & effects: Q fever, acute and chronic hepatitis.

Transmitted by rickettsia

**FU9 Entamoeba Histolytica**

Medically recognized possible symptoms & effects: liver abscess, fever, abdominal pain.

Protozoa

**FU10 Epidermophyton Floccosum**

Medically recognized possible symptoms & effects: tinea cruris (ringworm of crotch).

Fungus

**FU11 Giardia Lamblia**

Medically recognized possible symptoms & effects: acute diarrhoea, generalised weakness, abdominal distension, nausea. Chronically can cause malabsorption.

Protozoa

Also infects cattle, cats and dogs; most commonly reported protozoa world wide

**FU12 Leishmania Donovanii**

Medically recognized possible symptoms & effects: Leishmaniasis (ulcerating skin lesions).

Protozoa

Reservoir of dogs and humans.

India and E Africa.

**FU13 Microsporum Glypsium**

Medically recognized possible symptoms & effects: tinea capitis.

Fungus

Prevalent in S. Africa.

**FU14 Mixed Protozoa**

Protozoa

**FU15 Plasmodium Falciparum**

Malaria protozoa

Africa and New Guinea, South East Asia, South America and Oceania.

**FU16 Plasmodium Vivax**

Malaria protozoa

India, Pakistan, Bangladesh, Sri Lanka, SE Asia, Central and South America, Oceania.

**FU17 Rocky Mountain Spotted Fever**

Rickettsia

From rabbits and other small mammals by tick bites; North and South America.

**FU18 Trichomonas Vaginalis**

Medically recognized possible symptoms & effects: vaginitis in woman; occasionally in men, affecting urethra, but usually asymptomatic.

Protozoa

Usually sexually transmitted.

**FU19 Trichophyton Rubrum**

Medically recognized possible symptoms & effects: tinea pedis (athlete's foot), tinea cruris (groin).

Fungus

**FU20 Trichophyton Terrestre**

Medically recognized possible symptoms & effects: Tinea.

Fungus

**FU21 Trypanosoma Brucei**

Medically recognized possible symptoms & effects: African Trypanosomiasis, sleeping sickness.

protozoa

Africa

**FU22 Candida Glabrata/ Torulopsis Glabrata**

Medically recognized possible symptoms & effects: similar vaginal symptoms to candida albicans.

Fungus

Appears to be on the increase.

**FU23 Candida Krusei**

a form of candida particularly present in men, and those who have a compromised immune system, such as in HIV.

Fungus

Appears to be on the increase.

**FU24 Chlamydia Pneumoniae / Chlamydophila Pneumoniae**

Medically recognized possible symptoms & effects: pneumonia, bronchitis pharyngitis, laryngitis, and sinusitis.

Chlamydia

By Age 20 years, 50% of population have evidence of past infection. Re-infection throughout life appears to be common. Studies have shown that people infected by this chlamydia are 4.5 times more likely to have a stroke than matched controls who show no sign of having encountered it. Links have also been proposed with Alzheimer's disease, asthma, and some forms of arthritis.

**FU25 Cryptosporidium**

Medically recognized possible symptoms & effects: diarrhoea, (usually watery), abdominal cramping, nausea, vomiting, fever, headache and loss of appetite; some people are asymptomatic.

Protozoa

Serological surveys indicate that 80% of the US population has had cryptosporidiosis.

**FU26 Entamoeba Coli, Cysts**

Medically recognized possible symptoms & effects: liver abscess, fever, abdominal pain.

Protozoa

**FU27 Iodamoeba Butschlii, Trophozoites**

Commensal in large intestine.

**FU28 Iodamoeba Butschlii, Cysts**

Commensal in large intestine.

**FU29 Leishmania Tropica**

Medically recognized possible symptoms & effects: tropical sore, with infection usually localised to the site where the sandfly bite occurs.

Found in Ethiopia, India, European Mediterranean region, Middle East, Kenya, North Africa; some troops deployed in the Gulf have exhibited unusual symptoms (including fever, nausea, and fatigue).

**FU30 Pneumocystis Carnii in Human lung**

Medically recognized possible symptoms & effects: pneumonia.

Fungus.

## Fungi 2 Test Kit

### 30 vials

*The energy patterns of acremonium, curvularia specifera, rhizoplus stolonifer plus some vials containing various strains from the same family ( alternaria mix, aspergillus mix, penicillium mix, phoma mix, etc.)*

**FU231 Acremonium/bCephalosporium Mix**

Causes respiratory infections and fungal nail infections.

Particularly found on wheat, but also on dead plant material and soil.

**FU232 Alternaria Mix**

A common allergen; infections mainly in the immuno-suppressed.

A widespread airborne mould occurring both indoors and out; particularly abundant in decaying plant matter, indoor horizontal surfaces and window frames.

**FU233 Aspergillus Mix**

common allergen; opportunistic infections when immuno-suppressed, mainly affecting lungs; can produce symptoms that resemble asthma.

Produces a mycotoxin called gliotoxin; commonly isolated from soil, plant debris including compost heaps, and indoor air environment; used to culture soy foods such as miso and is a source for 'vegetable based' digestive enzymes.

**FU234 Aureobasidium Pullulans/ Pullularia**

Allergic reactions common.

Pink or black mildew found where moisture accumulates indoors; also found in/on soil, forest soils, fresh water, aerial portion of plants, fruit, marine estuary sediments and wood.

**FU235 Botrytis Cinerea**

Allergic reactions possible.

Found on stored fruit and vegetables, on decaying plants and in soil.

**FU236 Chaetomium Globosum**

Opportunistic infections when immuno-suppressed; may cause nail infections.

Found in soil, air, plant debris and dung.

**FU237 Cladosporium Mix**

Common allergen widely distributed in air and rotten organic material; frequently isolated as a contaminant on foods; a common airborne mould on the US east coast.

**FU238 Curvularia Specifera**

May cause infections in both humans and animals found on soil, plants, and cereals particularly in tropics and sub-tropics.

**FU239 Epicoccum Mix**

Common allergen mould widely distributed and commonly isolated from air, soil and foodstuff; also found on textiles.

**FU240 Fusarium Mix**

Allergic reactions; infections in the immuno-suppressed.

Produces mycotoxins; widely distributed on plants and in the soil; found in normal mycoflora of commodities, such as rice, bean, soybean, and other crops.

**FU241 Geotrichum Candidum**

Lung infections have been reported, and less commonly infections of mouth, vagina, skin and digestive tract. Part of normal human flora, can be isolated from sputum and faeces; very common; found worldwide in soil, water, air, and sewage, as well as in plants, cereals, and dairy products.

**FU242 Gliocladium Fimbriatum**

Worldwide distribution in soil and on plant debris.

**FU243 artrazineMoulds of grasses.****FU244 Microsporum Canis**

Tinea capitis and tinea corporis (ringworm) in humans.

Also affects cats and dogs.

**FU245 Monotospora Brevis****FU246 Mucor Mix**

Common allergen; uncommon infection in immuno-suppressed.

Fungus found in soil, plants, decaying fruits and vegetables.

**FU247 Mycogone Sp**

Causes disease in commercial mushrooms.

**FU248 Neurospora Sitophila**

Pink mould found on mushrooms.

**FU249 Penicillium Mix**

Allergies and pneumonitis.

Produces mycotoxins; widespread; found in soil, decaying vegetation, and the air; common contaminants on food; found in house dust, wallpaper, moist chipboard and water-damaged fabrics.

**FU250 Phoma Mix**

Allergies and pneumonitis.

Soil and plant material; on shower curtains, walls, tiles and reverse side of linoleum; may be found on foods such as rice and butter.

**FU251 Rhizopus Stolonifer**

Allergies and lung problems.

Found in soil, wood mills, decaying fruit and vegetables, animal dung, and old bread.

**FU252 Rhodotorula Rubra**

Found in air, soil, lakes, ocean water, and dairy products.

**FU253 Scopulariopsis Sp**

May cause infections in both humans and animals soil, plant material, feathers, and insects.

**FU254 Spondylocladium Atrovirens**

Problem on potatoes.

**FU255 Sporobolomyces**

Allergies; may cause infections in both humans and animals.

Air, tree leaves, and orange peel.

**FU256 Sporotrichum Pruinosum**

Widely distributed in decaying wood and soil.

**FU257 Stemphylium Mix**

Allergies and (but rarely) sinusitis.

Widely distributed on decaying vegetation, wood and in the soil; rare indoors.

**FU258 Trichoderma Mix**

Allergies; opportunistic infections in immuno-suppressed; becoming more of a problem widely distributed in the soil, plant material, decaying vegetation, and wood; paper and unglazed ceramics.

**FU259 Trichophyton Mix**

One of the leading causes of hair, skin, and nail infections in humans (ringworm, athlete's foot etc.).

Found in the soil; also affects animals.

**FU260 Verticillium Albo-Atrum**

A rare agent of mycotic keratitis (an eye infection).

Decaying vegetation and soil; affects trees (particularly maples).

## Fungi 3 Test Kit 24vials

*Additional important fungi, many of which produce mycotoxins that are dangerous for human health. We often think viruses are the most important threat, but fungal infections, while often less dramatic, can have profound and long lasting effects on health. The fungus can have a direct effect (e.g. an allergic reaction) or they can affect health through the mycotoxins they produce. We also have a Mycotoxins Test Kit.*

**FU3 61 Aspergillus Carneus**

Produces mycotoxin citrinin.

**FU3 62 Aspergillus Clavatus**

Commonly isolated from soil, plant debris, and indoor air environment. Produces the mycotoxins cytochalasin and patulin.

**FU3 63 Aspergillus Flavus**

Commonly isolated from soil, plant debris, and indoor air environment. Produces the mycotoxins aflatoxin B and cyclopiazonic acid. A rare cause of pulmonary disease.

**FU3 64 Aspergillus Glaucus**

Commonly isolated from soil, plant debris, and indoor air environment.

**FU3 65 Aspergillus Nidulans**

Commonly isolated from soil, plant debris, and indoor air environment. Produces the mycotoxin sterigmatocystin.

**FU3 66 Aspergillus Ochraceus**

Common indoors. Produces mycotoxins ochratoxin A and penicillic acid.

**FU3 67 Aspergillus Ustus**

Found in the soil and also on cardboard, paper, rubber, birds, and in dried fruits, nuts, cheeses, citrus fruits, seeds and grains. Produces mycotoxins ausdiol, austamide, austocystin and brevianamide.

**FU3 68 Aspergillus Versicolor**

Commonly found on mattresses and carpets and in cellars/basements. Produces mycotoxin sterigmatocystin. Prevalent in over 5% of fungal infections of toenail, particularly involving big toe.

**FU3 69 Bipolaris**

Linked to allergic and chronic sinusitis and chest infections. Produces mycotoxins cytochalasin, sterigmatocystin and sporidesmin.

**FU3 70 Blastomyces Dermatitidis**

Found primarily in the Mid-West and Northern United States and Canada. Causes blastomycosis (lung infection, chest pains, coughs, fever, painless sores). Produces mycotoxins cytochalasin, sporidifesmin and sterigmatocystin.

**FU3 71 Coccidioides Immitis**

Most commonly seen in the desert regions of the southwestern United States, and in Central and South America. It can cause a disease called coccidioidomycosis (Valley Fever).

**FU3 72 Cryptococcus Neoformans**

Found in soil throughout the world. Can cause lung infections (cryptococcosis).

**FU3 73 Cyllindrocarpon**

Found in wet indoor environments. Produces mycotoxin trichothecene.

**FU3 74 Memnoniella**

Found in soil and plant debris but also inside buildings, especially on cellulose-based materials. Often found growing with Stachybotrys, but smaller so enters lungs more easily. Most typical symptoms are throat irritation, eye and nose itchiness and rashes. Produces mycotoxins trichothecenes.

**FU3 75 Myrothecium**

Often found on materials such as paper, textiles, canvas and cotton. Produces mycotoxin trichothecene.

**FU3 76 Penicillium Aurantiogriseum**

Commonly found on mattresses and carpets. Produces mycotoxin Penicillic acid.

**FU3 77 Penicillium Chrysogenum**

Commonly found on mattresses and carpets.

**FU3 78 Penicillium Nordicum**

Commonly isolated from fermented meat products such as cured ham and dairy products. Produces mycotoxin ochratoxin A.

**FU3 79 Penicillium Verrucosum**

Found on cereals (e.g. wheat, barley). Produces mycotoxin citrinin and ochratoxin A.

**FU3 80 Pithomyces**

Often found growing in soil, decaying leaves and grasses. Produces mycotoxin sporidesmin.

**FU3 81 Rhizopus**

Found on mature fruits and vegetables, jellies, syrups, bread, peanuts, leather and tobacco. Produces mycotoxin rhizonin.

**FU3 82 Sporothrix Schenkii**

Found throughout the world in soil, plants, and decaying vegetation. Skin lesions characteristically following lymphatic pathways.

**FU3 83 Stachybotrys Chartarum /Stachybotrys Atra, Stachybotrys Alternans Or Stilbospora Chartarum**

Also known as black mould. Commonly found on wallpapers. Also on paper, cardboard, wallboard, wall framing when persistently wet. Linked to sick building syndrome. Produces mycotoxins roridin E, satratoxin G & H and trichothecene.

**FU3 84 Wallemia**

Found worldwide, and typically contaminate low-moisture foods, carpets and mattresses. Produces mycotoxin walleminol.

# Human Histology Test Kit

## 75 vials

*The energy patterns of healthy body parts from the 17 histology/pathology kits. e.g. kidney, lung, liver, bone, muscles, nerves, ovary, prostate, pancreas, mast cells, etc.*

**Please only order this kit if you are unlikely ever to order the pathology/histology kits PH1-17. Otherwise you will end up with duplicates.**

### HIST1 **Adrenal gland/Suprarenal Gland**

Organs responsible for producing steroid and other hormones essential for life.

### HIST2 **Aorta**

The large arterial trunk that carries blood from the heart to be distributed by branch arteries through the body.

### HIST3 **Artery**

Tubular branching muscular- and elastic-walled vessels that carry blood from the heart through the body.

### HIST4 **Artery, Superior Mesenteric**

A large artery that arises from the aorta and supplies the greater part of the small intestine, the cecum, the ascending colon, and the right half of the transverse colon.

### HIST5 **Bladder**

Organ in which urine collects before evacuation from the body.

### HIST6 **Bone**

### HIST7 **Bone Marrow**

Soft, sponge-like tissue in the centre of most large bones, producing white blood cells, red blood cells, and platelets.

### HIST8 **Breast/ Mammary Gland**

Glands that produce milk for young.

### HIST9 **Cardiac Muscle/Heart Muscle**

The principal tissue in the heart wall.

### HIST10 **Cartilage, Elastic**

Provides strength and elasticity; found in external ear, epiglottis and auditory tubes.

### HIST11 **Cartilage, Fibrocartilage.**

Cushions and protects, such as intervertebral discs, pads in knee joints and pad between two pubic bones.

### HIST12 **Cartilage, Hyaline**

Most abundant cartilage in the body, providing flexibility and support.

### HIST13 **Cerebellum**

The portion of the brain in the back of the head between the cerebrum and the brain stem; it controls balance for walking and standing, and other complex motor functions.

### HIST14 **Cerebrum**

The largest part of the brain, controlling muscle functions speech, thought, emotions, reading, writing, and learning.

### HIST15 **Cervix**

The lower part and neck of the uterus.

### HIST16 **Collagenous Fibre/White Fibrous Tissue**

Strong, flexible but only slightly elastic, found in tendons and ligaments.

### HIST17 **Colon**

The part of the large intestine that extends from the end of the small intestine to the rectum.

### HIST18 **Corpus Albicans**

Once the corpus luteum degenerates it becomes the corpus albicans.

### HIST19 **Corpus Luteum**

Endocrine gland in ovary formed when ovum discharged; if the ovum impregnated, the corpus luteum increases in size and persists for several months, (secretes estrogens, progesterone, relaxin and inhibin); otherwise degenerates and shrinks.

### HIST20 **Duodenum**

The first part of the small intestine connecting the stomach and the ileum.

### HIST 21 **Epididymis**

The duct in which sperm undergo maturation.

### HIST22 **Esophagus**

The muscular tube through which food passes from the throat to the stomach.

### HIST23 **Fallopian Tube**

The tube through which eggs pass from the ovaries to the uterus.

### HIST24 **Gallbladder**

The pear-shaped organ found below the liver that concentrates and stores bile.

### HIST25 **Hippocampus**

Part of the limbic system of the brain, involved in emotions and memory.

### HIST26 **Ileum**

The last part of the small intestine.

### HIST27 **Intervertebral Disk, Fibrous Cartilage Spinal Disc**



**HIST28 Jejunum**

Portion of the small intestine that extends from the duodenum to the ileum.

**HIST29 Kidney**

A pair of organs which function to filter the blood and control the level of some chemicals in the blood such as hydrogen, sodium, potassium, and phosphate; they eliminate waste in the form of urine.

**HIST30 Kidney Cortex**

One of the main functional parts of the kidney (outer zone).

**HIST31 Kidney Medulla**

One of the main functional parts of the kidney (inner zone) containing the renal pyramids.

**HIST32 Liver**

The largest organ in the body; carries out many important functions, e.g. making bile, changing food into energy, and cleaning alcohol and poisons from the blood.

**HIST33 Lung**

Main organ of respiration, lying either side of heart.

**HIST34 Lymph gland/ lymph node**

Lymph nodes filter lymph and store lymphocytes (white blood cells).

**HIST35 Mast Cell**

Produce histamine, which dilates small blood vessels; involved in body's reaction to injury and infection.

**HIST36 Medulla Oblongata**

Lower part of brain stem; controls autonomic functions; relays nerve signals between the brain and spinal cord.

**HIST37 Muscle, Involuntary**

Smooth muscles not ordinarily under the control of the will, activated by the autonomic nervous system.

**HIST38 Muscle, Voluntary**

Muscle that can be made to contract or relax by conscious control.

**HIST39 Nerve**

A bundle of fibers that uses electrical and chemical signals to transmit sensory and motor information from one body part to another.

**HIST40 Nerve, Peripheral**

The nerves outside of the brain and spinal cord; they contain non-neuronal cells and connective tissue as well as axons.

**HIST41 Ovary**

Female reproductive glands in which the ova, or eggs, are formed, located in the pelvis, one on each side of the uterus.

**HIST42 Pancreas**

A glandular organ located in the abdomen; it makes

pancreatic juices, which contain enzymes that aid in digestion, and it produces several hormones, including insulin.

**HIST43 Parotid Gland**

Salivary gland below and just in front of the ear.

**HIST44 Penis**

The external male reproductive organ, containing a tube called the urethra, which carries semen and urine to the outside of the body.

**HIST45 Pineal gland/ Epiphysis Cerebri**

Attached to the roof of the third ventricle near its junction with the mid-brain; secretes melatonin; full function is unclear.

**HIST46 Pituitary gland/ Hypophysis**

The main endocrine gland, producing hormones that control other glands and many body functions, especially growth.

**HIST47 Prostate Gland**

A gland just below the bladder.; surrounds part of the urethra, the canal that empties the bladder, and produces a fluid that forms part of semen.

**HIST48 Prostate Gland, Senile**

A prostate showing deterioration that comes with age.

**HIST49 Pyloric Sphincter/Pyloro-Duodenal Junction**

The junction between the stomach and the small intestine.

**HIST50 Pylorus/Pyloric Region**

The region of the stomach that connects with the duodenum (first part of small intestine).

**HIST51 Rectum**

The last part of the large intestine.

**HIST52 Renal Artery & Vein**

The main artery and vein of the kidney.

**HIST53 Seminal Vesicle**

Glands that help produce semen.

**HIST54 Skin, Negroid and Caucasian**

Outermost covering of the body.

**HIST55 Sperm/ Spermatozoa**

Mature male germ cells that fertilise the ovum.

**HIST56 Spinal Chord, Cervical**

The spinal column in the region of the neck.

**HIST57 Spinal Chord, Lumbar**

The spinal chord between the ribs and the pelvis.

**HIST58 Spinal Chord, Thoracic**

The spinal column in the region of the ribs.

**HIST59 Spleen**

Located on the left side of the abdomen near the stomach; produces lymphocytes, filters the blood, stores blood cells, and destroys old blood cells.

**HIST60 Stomach**

Part of the digestive system; helps in the digestion of food by mixing it with digestive juices and churning it into a thin liquid.

**HIST61 Sympathetic Ganglion**

A group of nerve cell bodies either close to the spinal column or close to the large abdominal arteries.

**HIST62 Testis/ Testicle**

The two egg-shaped glands found inside the scrotum that produce sperm and male hormones.

**HIST63 Thalamus**

A large mass of gray matter deeply situated in the forebrain; relays information received from various brain regions to the cerebral cortex.

**HIST64 Thymus**

In the chest behind the breastbone; an organ that is part of the lymphatic system, in which T lymphocytes grow and multiply.

**HIST65 Thyroid**

A gland located beneath the voice box (larynx) that produces thyroid hormone. The thyroid helps regulate growth and metabolism.

**HIST66 Tonsil**

Small masses of lymphoid tissue on either side of the throat.

**HIST67 Trachea**

Airway that leads from the larynx to the lungs.

**HIST68 Umbilical chord/ Umbilical cord**

A cord arising from the navel that connects the fetus with the placenta and contains the two umbilical arteries and the umbilical vein.

**HIST69 Ureter**

The tube that carries urine from the kidney to the bladder.

**HIST70 Urethra**

The tube that carries urine from the bladder and out through the penis.

**HIST71 Uterus/ Womb**

The small, hollow, pear-shaped organ in a woman's pelvis; this is the organ in which an unborn child develops.

**HIST72 Vagina/ Birth canal**

The muscular canal extending from the uterus to the exterior of the body.

**HIST73 Vas Deferens/ Deferent Canal/ Deferent Duct / Spermatic Duct / Spermiduct / Testicular Duct / Ductus Deferens**

A coiled tube that carries the sperm out of the testes.

**HIST74 Vein**

A tube carrying blood from the capillaries towards the heart.

**HIST75 Vena Cava**

Two large veins which take deoxygenated blood into the right atrium of heart for delivery to the lungs.

# Homoeopathic A Test Kit

## 54 vials

*Homeopathic remedies, include arnica, arsen alb, hepar sulph, lachesis, lycopodium, merc sol, nux vom, petroleum, rhus tox, sulphur, thuja, etc. Each vial contains 2 tablets (30C potency).*

### HPA1 **Acid Nit**

Irritability. Pains as from splinters. Worse cold climate and hot weather. Warts.

### HPA2 **Acid Phos**

Poor memory. Frequent urination at night. Pressure behind the sternum.

### HPA3 **Aconite**

Rapid onset of colds and flu. Sore throat. Red rashes. Measles. Earache. Effect of fear and fright.

### HPA4 **Antim Tart**

Cough with white, coated tongue. Unable to raise phlegm. Acute bronchitis.

### HPA5 **Argent Nit**

Acidity. Headache. Conjunctivitis. Mental strain. Nervous anticipation. Colds. Diarrhoea. Nappy rash.

### HPA6 **Arnica**

After injury. Mental and physical shock. Before operations. Visits to the dentist. Exhaustion.

### HPA7 **Arsen Alb**

Stomach upsets from food poisoning. Diarrhoea. Vomiting.

### HPA8 **Avena Sativa**

Exhaustion. Sleeplessness. Poor muscle tone. Loss of appetite after illness. Calcium loss in bones and teeth.

### HPA9 **Bacillinum**

Tuberculosis. Humid asthma. Ringworm. Mucopurulent expectoration.

### HPA10 **Baptisia**

Confusion. Offensive discharges. Stupor. Dark red face. Aching and soreness all over. Gastric flu.

### HPA11 **Belladonna**

Hot, flushed face. Sore throat. Neuralgia. Throbbing headache. Earache. Boils. Fever. Mumps. Chicken pox.

### HPA12 **Berberis**

Itchy skin eruptions. Improved by cold compresses. Infantile eczema.

### HPA13 **Bryonia**

Chesty colds. Dry cough. Muscular pain - better when resting. Acute bronchitis.

### HPA14 **Calc Carb**

Sensitive. Easily embarrassed. Profuse periods in young girls. Catches colds easily. Acne rosacea.

### HPA15 **Calc Fluor**

Thick catarrh. Bleeding piles. Cracking joints. Indecision.

### HPA16 **Calc Phos**

Severe stomach pain after eating. Early periods. Acne. Growing pains. Brain fog.

### HPA17 **Carbo Veg**

Indigestion with excessive flatulence. Hoarseness. Acne. Debility.

### HPA18 **Chamomilla**

Teething. Whining, demanding children. Frantic, unbearable pain. Nightmares. Irritability.

### HPA19 **China**

Convalescence. Haemorrhage. Diarrhoea. PMT. Congestive headaches. Copious periods with dark clots.

### HPA20 **Cocculus**

Irritability. Profound sadness. Constipation. Headaches with nausea. Period problems.

### HPA21 **Drosera**

Hoarse barking cough. Constant tickling cough. Whooping cough. Ganglia.

### HPA22 **Euphrasia**

Watering eyes. Streaming nose. Inflamed eyes. Conjunctivitis. Measles.

### HPA23 **Ferrum Phos**

Fear. Greatly varying appetite. Flushes easily. Nose bleed. Acute bronchitis. Acute earache.

### HPA24 **Gelsemium**

Influenza. Nervous anxiety. Sick headache. Sore throat. Runny nose. Measles. Examination nerves.

### HPA25 **Graphites**

Chapped, unhealthy skin. Cracked weeping eczema. Backwardness at school. Apathetic and overweight.

### HPA26 **Hamamelis**

Varicose veins. Piles. Bruised soreness. Chilblains. Nose bleed.

### HPA27 **Hepar Sulph**

Skin sensitive to touch. Injuries tend to suppurate. Wheezing. Abscesses. Boils. Croup. Aggressiveness.

### HPA28 **Hypericum**

Very painful cuts and wounds. Blows to fingers or toes. Horse-fly bites. Painful bleeding piles.

**HPA29 Ignatia**

Weepiness. Bereavement. Hysteria. Headache. Effects of anger and fear. Insomnia. Tobacco antidote.

**HPA30 Ipecac**

Any illness where there is constant nausea and sickness. Morning sickness. Nose bleed. Spasmodic cough.

**HPA31 Kali Bich**

Catarrh. Stringy sputum. Pain at the root of the nose. Measles. Cough.

**HPA32 Kali Phos**

Nervous exhaustion. Nervous indigestion. Giddiness from exhaustion and weakness after flu.

**HPA33 Lachesis**

Jealousy, fear, suspicion. Worse from sleep. Sleeplessness. Cystitis. Mastitis. Thin, offensive stools. PMT.

**HPA34 Lycopodium**

Fear of failure. Excessive or lack of appetite. Flatulence. Craving sweet foods. Dyslexia. Aggressiveness.

**HPA35 Mag Carb**

Acidity. Sensitive to least touch. Periods late and scanty.

**HPA36 Mag Phos**

Anti-spasmodic. Neuralgic pains. Toothache. Better for heat. Flatulent colic. Menstrual colic. Angina.

**HPA37 Medorrhinum**

Chronic rheumatism. Intolerable pain. Trembling all over. Intense itching of anus. Offensive periods. Sterility.

**HPA38 Merc Cor**

Iritis. Sore, swollen throat. Desire to pass stools not relieved by passing stools.

**HPA39 Merc Sol**

Bad breath. Body odour. Sore throats. Diarrhoea. Abscesses. Chicken pox. Mumps. Abnormal sweat.

**HPA40 Nux Vom**

Nervous indigestion. Early morning liverishness. Indigestion 2-3 hours after food. Hangover.

**HPA41 Petroleum**

Oozing skin eruptions. Fiery blisters. Infantile eczema.

**HPA42 Phosphorus**

Bronchitis. Dry cough. Hypersensitivity. Nose bleed.

**HPA43 Psorinum**

Extreme sensitivity to cold. Offensive discharges. Always hungry. Intolerable itching. Worse for coffee.

**HPA44 Pulsatilla**

Weepiness, particularly in children. Menstrual problems. Styes. Change of life. Adenoids.

**HPA45 Rhus Tox**

Strains of joints or tendons. Rheumatism. Lumbago. Sciatica. Herpes of lips. Burns. Chicken pox.

**HPA46 Ruta Grava**

Bruised bones. Fractures. Dislocations. Eye strain. Eyes burn and ache. Housemaid's knee.

**HPA47 Sepia**

Periods suppressed or delayed. Change of life. Morning sickness. Bearing down pain in the abdomen.

**HPA48 Silica**

Boils. Abscesses. Chronic headaches. Sinus trouble. Rickets. Thinness. Tonsillitis. Sleep walking.

**HPA49 Sulphur**

Itching skin. Skin troubles. Eczema. Boils. Burning and itching piles.

**HPA50 Symphytum**

Non-union of fractures. Pricking pain. Pain in eye after a blow.

**HPA51 Syphilinum**

Utter prostration in the morning. Hopeless. Chronic eruptions. Rheumatism.

**HPA52 Thuja**

Warts. Brittle nails. Morning headaches. Absence of appetite in the morning. Antidote to vaccinations.

**HPA53 Tuberculinum**

Incipient T.B. Symptoms constantly changing. Emaciated. Fear of animals. Dysmenorrhoea. Enlarged tonsils.

**HPA54 Zincum Met**

Convulsions. Sensitive to noise. Lethargic, stupid. Squinting. Very hungry. Varicose veins. Soles sensitive.

# Homoeopathic B Test Kit

## 50 vials

*Homeopathic remedies include actaea rac, alumina, antim crud, apis mel, cantharis, helleborus, liliium tig, nat mur, podophyllum, etc. Each vial contains 2 tablets of the 30C potency.*

### HPB55 **Actaea Rac**

Depression, headaches, neuralgia. Worse for cold, damp and movement.

### HPB56 **Agaricus Musc**

Itching and burning extremities. Hands and feet red and swollen. Chilblains.

### HPB57 **Aletris Far**

Heaviness in lower part of abdomen with false labour pains.

### HPB58 **Alfalfa**

Heavy head. Poor appetite. Excessive thirst. Desire for sweets. Fatigue. Poor sleep.

### HPB59 **Allium Cepa**

Hay fever; frequent sneezing. Watery nasal secretions. Head colds. Neuralgia. Better in open air.

### HPB60 **Alumina**

Hurried. Moody. Dry mucous membranes. Abnormal cravings. Constipation.

### HPB61 **Antim Crud**

Oozing blisters. Thick hard scabs. Impetigo.

### HPB62 **Apis Mel**

Insect stings. Burning stinging pains. Burns. Cystitis. Arthritis. Jealousy. Awkward.

### HPB63 **Baryta Carb**

Delayed mental and physical development. Sore throats. Nail biting. Tonsillitis.

### HPB64 **Bellis Perennis**

Black-and-blue spots, painful to touch. Bruising. Fatigue after a blow or fall.

### HPB65 **Borax**

Dread of downward motion. Nervous. Sensitive to noise. Impatience. Hot flushes.

### HPB66 **Cactus Grand**

Spasmodic pain. Constrictions. Congestive headache. Dysmenorrhea. Iron band round chest.

### HPB67 **Caladium**

Depression and fatigue. Memory loss. Irritability at least noise. Tobacco antidote.

### HPB68 **Calendula**

Extreme sores with or without loss of skin. Bee and wasp stings. Burns. Bruises.

### HPB69 **Cantharis**

Burns. Burning pains. Cystitis. Gnat bites. Itchy blisters.

### HPB70 **Causticum**

Intensely sympathetic. Depression, apprehension, timidity. Paralysis. Skin dirty.

### HPB71 **Chelidonium**

Tooth ache. Jaundice. General lethargy. Worse for change of weather.

### HPB72 **Cicuta Virosa**

Spasmodic contractions of muscles. Stiffness of neck. Contortions. Convulsions.

### HPB73 **Cina**

Irritability. Dark rings round eyes. Insatiable hunger. Insomnia. Intestinal parasites.

### HPB74 **Colocynth**

Intestinal colic. Cramp. Dysentery-type stools.

### HPB75 **Conium Mac**

Dizziness. Numbness. Weakness. Trembling. Sweating.

### HPB76 **Cuprum Met**

Cramps. Nausea and vomiting. Metallic taste in mouth.

### HPB77 **Eupatorium Perf**

Aching and stiffness of bones and muscles. Pain in eyeballs. Flu.

### HPB78 **Helleborus**

Sees, hears, tastes imperfectly. Muscular weakness. Sinking sensation. Sighing.

### HPB79 **Hydrastis Can**

Thick and yellow mucous. Itching of vulva.

### HPB80 **Iris Vers**

Sick headache. Pancreas affected. Goitre. Burning of alimentary canal.

### HPB81 **Kali Carb**

Irritable. Sensitive to pain, noise and touch. Intolerance of cold weather.

### HPB82 **Kreosotum**

Stupid, forgetful, irritable. Offensive discharges. Worse open air, cold, rest.

### HPB83 **Ledum Pal**

Pain travelling upwards. Black eye. Puncture wounds. Intense coldness.

### HPB84 **Lilium Tigrinum**

Profound depression. Aimless. Better fresh air. Vaginal itching.

### HPB85 **Merc Cyanatus**

Thick greyish coating of mouth. Tongue white with fetid breath. Thrush.

**HPB86 Mezereum**

Ulceration of skin. Itchy blisters. Impetigo.

**HPB87 Natrum Mur**

Sneezing. Sinus. Eczema. Thrush. Incontinence. Vertigo. Exhaustion. Craves salt.

**HPB88 Nux Moschata**

Sleepiness. Fainting fits. Changeable moods. Dryness of mucous membranes.

**HPB89 Oscillococcinum**

Flu. Common cold

**HPB90 Opium**

Heavy sleep. Sweaty skin. Loss of consciousness. Snoring. Noisy breathing.

**HPB91 Phytolacca Dec**

Glandular swellings with heat and inflammation.

**HPB92 Platina**

Arrogant. Numbness and coldness.

**HPB93 Podophyllum**

Biliousness. Talkative. Depression. Worse in hot weather.

**HPB94 Pyrogen**

Septic states. Offensive discharges. Restless. Dry tongue.

**HPB95 Ranunculus Bulb**

Effects of alcohol. Soreness of chest. Burning and intense itching of skin.

**HPB96 Rumex Crispus**

Enlarged lymph glands. Tickling in throat. Dry cough. Raw pain under clavicle.

**HPB97 Sabina**

Violent pulsations. Worse least motion. Risk of miscarriage.

**HPB98 Sambucus Nigra**

Sudden waking at night with feeling of suffocation. Infantile asthma.

**HPB99 Secale Cornutum**

Debility. Anxiety. Better from cold.

**HPB100 Senna**

Nausea and vomiting with yellowish diarrhoea. Aromatic smell to breath.

**HPB101 Staphisagria**

Styes. Inflammation and itchiness of corner of eye.

**HPB102 Taraxacum**

Coated, mapped tongue. Constipation.

**HPB103 Urtica Urens**

Superficial burns with skin irritation.

**HPB104 Veratrum Alb**

Collapse with extreme coldness. Cold perspiration. Vomiting. Cramps in extremities.



# Hormone Test Kit

## 30 vials

*The energy patterns of insulin, progesterone, oestrogen, testosterone, TSH, antidiuretic hormone, calcitonin, FSH, cortisone, noradrenaline, ACTH, etc.*  
**Other hormones are in Body Biochemicals 1-5.**

Hormones are chemicals produced by the body in one organ that are transported around the body and have an effect elsewhere. They act as messenger molecules.

### H1 Adrenocorticotrophic (ACTH)

Stimulates adrenal cortex to secrete other hormones.

### H2 Aldosterone

Increases re-absorption of sodium from urine and stimulates excretion of potassium.

### H3 Androgen

A group of hormones that contribute to development of male reproductive system, e.g. testosterone.

### H4 Antidiuretic Hormone (ADH)/ Vasopressin Hypothalamus

Affects urine volume, stored in posterior pituitary.

### H5 Calcitonin (CT)

Homeostasis of blood calcium and phosphate levels.

### H6 Cholecystokinin (CCK)

Inhibits secretion of gastric juice, decreases movement of GI tract, stimulates secretion of pancreatic juice rich in digestive enzymes, causes ejection of bile from gall bladder and opening of sphincters at common duct, and induces a feeling of satiety; may regulate feeding as a "stop eating" signal.

### H7 Corticosterone

Converted to aldosterone by aldosterone synthase.

### H8 Corticotropin Releasing Hormone (CRH)

Stimulates release of ACTH involved in the regulation of food intake, energy homeostasis and stress response.

### H9 Cortisone/Cortisol

Breaks down muscle. See also glucocorticoids.

### H10 Epinephrine/Adrenaline

Helps body resist stress by increasing heart rate, constricting blood vessels, accelerating respiration, decreasing digestion, increasing efficiency of muscular contractions, increasing blood sugar, stimulating cellular metabolism.

### H11 Follicle-Stimulating Hormone (FSH)

Stimulates production of eggs and sperm.

### H12 Glucocorticoids

Resistance to stress. 3 of them: cortisol, corticosterone, and cortisone. Makes sure enough energy is available; conversion of non-carbohydrates into energy; makes blood vessels more sensitive to vessel-constricting chemicals, anti-inflammatory.

### H13 Growth Hormone Inhibiting Hormone (GHIH) / Somatostatin

Inhibits secretion of acid and pepsin and release of gastrin, insulin and glucagons; inhibits motility of the gall bladder and intestine; suppresses secretion of lipase by the pancreas; slows absorption of nutrients from the gastro-intestinal tract.

### H14 Insulin

Decreases blood sugar levels; prevents muscle from being broken down.

### H15 Luteinizing Hormone

Stimulates sexual reproduction activities.

### H16 Melanocyte-stimulating Hormone (MSH)

Increases skin pigmentation. Inhibits fever and peripheral inflammation. Suppresses appetite.

**H17 Norepinephrine/Noradrenaline (NE)**

As epinephrine.

**H18 Oestrogen**

Develops and maintains female reproductive structures, especially endometrial lining of uterus, and secondary sex characteristics, including the breasts. Contributes to fluid and electrolyte balance. Important for bone density in both women and men. (See also Body Bio 2 test kit.)

**H19 Oxytocin (OT)**

Contraction of uterus and mammary glands, breast feeding, orgasm, autonomic control of emotions. Stored in posterior pituitary. Lowers steroid synthesis in testes.

**H20 Parathyroid Hormone (PTH)**

Helps to control homeostasis of calcium and phosphates in the blood.

**H21 Progesterone (PROG)**

Helps prepare endometrium for implantation of fertilised ovum and mammary glands for milk secretion. Can inhibit GnRH & PRL.

**H22 Prolactin (PRL)**

Initiates milk production by mammary glands. Excess prolactin can lead to absence of ovulation, lack of periods, excessive or spontaneous secretion of milk in women, and decreased sex drive, decreased sperm production and impotence in men. Women who cannot conceive often have high levels of prolactin. Enhances dopamine secretion. May be involved in the immune system.

**H23 Relaxin (RLX)**

Relaxes symphysis pubis & dilates cervix towards end of pregnancy.

**H24 Secretin**

Inhibits secretion of gastric juices, decreases movement of GI tract, stimulates secretion of pancreatic juice rich in sodium bicarbonate ions, stimulates secretion of bile by hepatic cells of liver.

**H25 Testosterone**

Produces male characteristics. Builds up muscles in males and females.

**H26 Thymosin**

Maturation of T lymphocytes.

**H27 Thyroid-stimulating Hormone (TSH)**

Stimulates thyroid gland to produce its hormones.

**H28 Thyrotropin Releasing Hormone (TRH)**

Stimulates anterior pituitary to secrete TSH.

**H29 Triiodothyronine/ T3**

Regulates metabolism by stimulating carbohydrate and fat breakdown, growth and development, and regulate activity of nervous system resulting in increased and more forceful heart beat, increased motility of GI tract, increased nervousness.

**H30 Human Growth Hormone/Somatotropin**

Increases the growth rate of the skeleton and skeletal muscles in children and teenagers. In adults helps to maintain muscle and bone mass and promote healing of injuries and tissue repair; speeds up the breakdown of liver glycogen into glucose; excess production may cause diabetes mellitus.

# Immunoglobulin Test Kit

## 5 vials

Immunoglobulin (Ig), also known as an antibody (Ab), is a large Y-shaped protein produced by B-cells that is used by the immune system to identify and neutralize foreign objects such as bacteria and viruses. The antibody recognizes a unique part of the foreign target, called an antigen. Each tip of the “Y” of an antibody contains a paratope (a structure analogous to a lock) that is specific for one particular epitope (similarly analogous to a key) on an antigen, allowing these two structures to bind together with precision. Using this binding mechanism, an antibody can tag a microbe or an infected cell for attack by other parts of the immune system, or can neutralize its target directly (for example, by blocking a part of a microbe that is essential for its invasion and survival). The production of antibodies is the main function of the humoral immune system.

The five immunoglobulin or antibodies involved in the immune system. 5 testing vials for natural therapists.

### **IG 01 IgA**

Found in mucosal areas, such as the gut, respiratory tract and urogenital tract, and prevents colonization by pathogens. Also found in saliva, tears, and breast milk.

### **IG 02 IgD**

Functions mainly as an antigen receptor on B cells that have not been exposed to antigens. Has been shown to activate basophils and mast cells to produce antimicrobial factors.

### **IG 03 IgE**

Binds to allergens and triggers histamine release from mast cells and basophils, and is involved in allergy. Also protects against parasitic worms.

### **IG 04 IgG**

Provides the majority of antibody-based immunity against invading pathogens. The only antibody capable of crossing the placenta to give passive immunity to the foetus.

### **IG 05 IgM**

Eliminates pathogens in the early stages of B cell mediated (humoral) immunity before there is sufficient IgG.

# Industrial & Environment 1 Test Kit

## 25 vials

*The energy patterns of many of the chemicals which we do not know by name but are widely present in the environment: acetaldehyde, chlorobenzene, chlorohexane, nitrobenzene, polyvinyl acetate, styrene, toluene, xylene, etc.*

This kit contains powerful chemicals that are present throughout our environment, so that we are frequently in contact with them as we go about our daily business. They may be in the air we breathe, the food we eat, the water we drink, things we touch, the beauty products we use, etc.

### IE11 Acetaldehyde/Ethanal

Common uses: chemical intermediary. Flammable; carcinogenic category 3.

### IE12 Chlorobenzene

Common uses: phenol, DDT, aniline, paint solvent.

### IE13 p-Cresol / 4-Hydroxytoluene

Common uses: starting material for pesticides and herbicides, phenolic resins, disinfectants, antioxidants, plasticizers, degreasers.

Toxic.

### IE14 Cyanuric Chloride/ Trichloro-s-Triazene

Common uses: dyestuffs, pharmaceuticals, herbicides, plastics, explosives, bleaches, disinfectants.

### IE15 Cyclohexane

Common uses: nylon, solvent for oils, fats and waxes, paint remover, solid fuel for camping stoves.

### IE16 Cyclohexanone

Common uses: nylon, adipic acid, nitrocellulose lacquers, celluloid, artificial leather, printing ink.

### IE17 Diethanolamine/ Di-(2-Hydroxyethyl)Amine

Common uses: detergents, emulsifying agents, manufacture of cosmetics, toiletries, bactericidal and herbicidal products.

### IE18 Diethyleneglycol/ 2,2'-Dihydroxydiethyl Ether

Common uses: softening agent for textiles, solvent for dyes, moistening agent for glues, paper, cork, sponge and tobacco, solvents and plasticizers in lacquers, photography, stain removers, anti-freeze.

### IE19 Glycerol/ Glycerin/ 1,2,3-Trihydroxypropane

Common uses: manufacture of synthetic resins and ester gums, moistening agent for tobacco, inks, lubricants, manufacture of explosives and cellulose films, toothpaste, moisturiser, hair mousse, hair gel, conditioner, conditioner hand and body lotion, shower gel, body wash, mouth wash, gelatine capsules for supplements, cleansing lotion, toning lotion, eye gel, after shave, foundation, sweetening agent in medicines, ear drops, cough mixture, cereal bars, soft-scoop ice cream. Synthesised from propylene or as a by-product of soap manufacture.

### IE110 Hydrazine

Common uses: derivatives used as blowing agents for foam plastics, antioxidants, herbicides, rocket fuel.

### IE111 Hydrogen Peroxide

Common uses: chemical production, pollution control, textile and paper industries, cleaning products, food bleaching.

In the body involved in destruction of pathogens by white blood cells.

### IE112 Methanol/ Methyl Alcohol/ Wood Spirit / Wood Naptha

Common uses: industrial solvent, manufacture of methanal, methanoic acid and chloromethane, denaturant for ethyl alcohol, antifreeze, paints, duplicating fluids, paint removers, varnishes, shoe polishes, extraction of animal and vegetable oils, fuel for camping stoves, pharmaceutical solvent.

### IE113 Naphthalene

Common uses: dyestuff intermediates, plasticizers, alkyd resins, polyesters, moth balls.

### IE114 Nitrobenzene

Common uses: dyestuffs, manufacture of aniline, soaps, shoe polish.

**IE115 Polyethylene Glycol (PEG)**

Common uses: solvents, pharmaceuticals, textiles, cosmetics, lubricating oils, paint, paper.

**IE116 Polyvinyl acetate**

Common uses: adhesives, thickeners, solvents, plasticizers, in textiles, in concrete additives, production of polyvinyl alcohol.

**IE117 Poly(Vinylpyrrolidone)/ PVP**

Common uses: adhesives, toiletries, hair spray, detergents, pharmaceuticals and in textile industry for fibre treatment, blood replacement.

**IE118 Propanone/ Acetone/ Dimethyl Ketone**

Common uses: solvent, manufacture of various chemicals, glues, adhesives, polystyrene cements, dyes, nail polish removers, wood hardeners, storage of acetylene gases. In small quantities in normal human urine, in larger amounts in that of diabetics.

**IE119 Pyridine**

Common uses: solvent particularly for plastics, manufacture of nicotinic acid, various drugs and rubber chemicals.

Very smelly, causes temporary sterility in males.

**IE120 Sodium Hydroxide/ Caustic Soda**

Common uses: pulp production for paper, viscose and cellulose, manufacture of other chemicals, vegetable oils, aluminium, petrochemicals, textiles, soap, detergents, oven cleaners and drain cleaners.

**IE121 Styrene/ Ethenylbenzene/ Vinylbenzene**

Common uses: manufacture of polymers particularly polystyrene and synthetic rubber, stabilising agent, dental filling component, food packaged in polystyrene, floor waxes, paints, adhesives, putty, metal cleaners, car fillers, two-part fillers, cigarette smoke.

Possibly carcinogenic to humans.

**IE122 Toluene**

Common uses: high-octane aviation and motor fuel, solvent, manufacture of benzene, caprolactam, phenol and dyestuffs, damp treatments, glues, inks, paints, lacquers, perfumes, nail varnish, furniture polish, extraction of various principles from plants, adhesives.

**IE123 Triethanolamine/ Tri-(2-Hydroxyethyl)Amine**

Common uses: detergents, emulsifying agents, Manufacture of cosmetics, toiletries, bactericidal and herbicidal products.

**IE124 Vinyl Acetate/ Ethenyl Ethanoate/ Vinyl Ethanoate**

Common uses: manufacture of adhesives, paints, coatings, paper and textile finishes, moulding components.

**IE125 o-Xylene**

Common uses: industrial solvent, petrol ingredient, phthalic anhydride, sterilising catgut.

## Industrial & Environment 2 Test Kit

### 25 vials

*The energy patterns of more chemicals including benzene, several phthalates, etc.*

**IE226 Abietic Acid**

Common uses: plastics, paints, varnishes, paper size, detergents.  
Used extensively.

**IE227 Aniline**

Common uses: antioxidants, rubber manufacture, dyes and pharmaceuticals.

**IE228 Aviation Gasoline**

In air pollution.

**IE229 Benzene**

Common uses: Industrial pollution - given off when petrol put into cars, industrial solvent, ethylbenzene, cumene, cyclohexane, styrene, phenol, nylon, synthetic detergents, dyes, paints, varnish removers, adhesives, pharmaceuticals

**IE230 Bromomethane/ Methyl Bromide**

Common uses: fumigates soil, commodities, grain, warehouses and mills.

Very toxic, widely used.

**IE231 Capryl Alcohol/ 1-Octanol/ Secondary Octyl Alcohol**

Common uses: foam-reducing agent, plasticizers, perfumery, cosmetics, solvent, chemical intermediate.

**IE232 Cellulose Acetate**

Common uses: fibres for clothing and furnishing, lacquer, cellophane, cigarette filters, magnetic tape, spectacle frames, screwdriver handles.

**IE233 Cetyl Alcohol/ Hexadecanol**

Common uses: extensively used in pharmaceutical and cosmetics, gel stabiliser for greases.

**IE234 Chloromethane/ Methyl Chloride**

Common uses: silicones, anti-knock additive in petrol, butyl rubber manufacture, methyl cellulose, blowing agent for polystyrene foam.

**IE235 Decyl Alcohol/ Decanol**

Common uses: plasticizers, detergents.

Commercially important.

**IE236 1,2-Diaminoethane/ Ethylenediamine**

Common uses: detergents, emulsifying agents, industrial solvent, textiles, paper, coatings, films, adhesives, rubber formulation.

**IE237 1,2-Dibromoethane/ Ethylene Dibromide**

Common uses: leaded petrol, fumigant for stored products, nematocide.

**IE238 Dichloromethane/ Methylene Chloride**

Common uses: industrial solvent, paint remover, degreaser, aerosol propellant.

**IE239 Diesel Range Organics**

Air pollution

Contains n-decane, n-dodecane, n-tetradecane, n-hexadecane, n-octadecane, n-eicosane, n-docosane, n-tetracosane, n-hexacosane, n-octacosane, n-hexane.

**IE240 Dimethylamine**

Common uses: manufacture of other chemicals, including solvents, herbicides, fungicides and rubber accelerators.

**IE241 Dioctyl Phthalate**

Common uses: plastics.

Most commonly used plasticiser; can migrate into food from packaging.

**IE242 Ethanol/ Ethyl Alcohol/ Alcohol/ Spirits of Wine**

Common uses: starting point for many other chemicals, in foodstuffs, as solvent, cosmetics, alcoholic drinks, methylated spirit, surgical spirit.

**IE243 bis(2-Ethylhexyl) Phthalate**

Common uses: one of most common phthalates found in food samples. Carcinogenic in mice and rats.

**IE244 Glycolic Acid/ Hydroxyethanoic Acid/ Hydroxyacetic Acid**

Common uses: textile and leather processing, cleaning (metals and dairy sanitation); used in cosmetics and personal care preparations, particularly skin peel preparations.

**IE245 Halazone**

Common uses: sterilisation of drinking water.

**IE246 Jet Turbine Fuel**

Air pollution

**IE247 Methanoic Acid/ Formic Acid**

Common uses: textile dyeing and finishing, leather tanning, intermediate for other chemicals.

**IE248 Monoethanolamine/ 2-AminoEthyl Alcohol/ 2-Hydroxyethylamine**

Common uses: detergents, emulsifying agents, manufacture of cosmetics, toiletries, bactericidal and herbicidal products.

Great commercial importance.



**E249 Nitric Acid**

Common uses: fertilisers, explosives, dyestuffs, wart preparations .

**IE250 Phthalic Anhydride**

Common uses: dyestuffs, plasticizers, alkyd resins.

## **Industrial & Environment 3 Test Kit** **25 vials**

*The energy patterns of more chemicals including bisphenol A, PCB's and various plastics, etc.*

There are many chemicals in the environment. Avoiding chemicals in food doesn't mean that you are not routinely exposed to chemicals. What is particularly worrying is that many of these chemicals are found in breast milk so that even new born babies are exposed to them, but breast feeding is still the best start for babies. This kit includes 4 of these chemicals.

Of particular concern for everyone is Bisphenol A, which is a major constituent of plastics and is used in dental materials.

The kit also includes a Phthalate Mix. Phthalates increase the flexibility of plastics and can migrate into foods and drinks from plastic containers. There are serious health concerns about phthalates.

**IE51 Adipic Acid**

Used in the manufacture of nylon, polyester, polyurethane, polypropylene and PVC. Also used in detergents.

**IE52 Aluminium Hydroxide / Aluminium Trihydrate / Aluminium Hydrate**

Used in vaccines, manufacture of glass and glazes, as a flame retardant in plastics, in paper manufacture, printing inks, detergents, for waterproofing fabrics, in mouthwashes and deodorants. Also used as a carrier of artificial colourings particular for uses involving colouring oils and fats, or where the product does not contain sufficient water to dissolve the colour. (Would not need to be shown in the list of ingredients when used as a colour carrier.

**IE53 Bisphenol A / BPA**

Major constituent of plastics. Also used as a sealant and in adhesives including in dentistry. An endocrine disruptor, which can mimic body's own hormones. Worrying levels found in breast milk and in people generally.

In 2007, a consensus statement by 38 experts on bisphenol A concluded that average levels in people are above those that cause harm to animals in laboratory experiments. In utero exposure to Bisphenol-A may adversely affect male genital development, according to a Kaiser Permanente study published online in the journal Birth Defects Research (August 2011)

**IE54 1,3-Butadiene**

An important industrial chemical used as in the production of synthetic rubber.

**IE55 2-Chloro-1,3-Butadiene / Chloroprene**

Involved in the production of polychloroprene/neoprene.

**IE56 Dibromacetic Acid / DBA**

Found in drinking water when chlorine disinfectants combine with naturally occurring organic matter.

**IE57 Ethylene Dichloride / 1,2-Dichloroethane**

Used in the manufacture of vinyl chloride. Also an additive in petrol and so found in vehicle exhaust fumes.

**IE58 Glutaraldehyde**

Glutaraldehyde-based disinfectants used for cleaning and sterilising equipment and surfaces in hospitals, dentists, etc. Used in manufacture of paper packaging that will be in contact with food.

**IE59 Heptane**

A solvent used in the production of oils, and in manufacture of adhesives.

**IE60 Hexachlorobenzene / Perchlorobenzene**

A chemical intermediate and a solvent for pesticides. Has been identified in breast milk. Research suggests it may be carcinogenic for humans.

**IE61 Hexane**

A widely used industrial chemical used, for example, in pesticide manufacture, as a cleaning agent in the printing industry, and as a solvent for varnishes and adhesives.

### **IE62 Perfluorononanoic Acid / PFNA**

Used in industrial processes; some industrial chemicals may degrade into this chemical. A developmental toxicant and an immune system toxicant.

### **IE63 Perfluorooctanesulfonic Acid / PFOS / Perfluorooctane Sulfonate / Heptadecafluorooctanesulfonic Acid**

Used to make fire-fighting foams, in textiles, paper, and leather; in wax, polishes, paints, varnishes, and cleaning products for general use; in metal surfaces, and carpets.

### **IE64 Perfluorooctanoic Acid / PFOA / C8/ Perfluorocaprylic Acid**

Used in mixing process for dyes, detergents and personal care products; non-stick cookware and stain- and water-resistant coatings for carpets and fabrics.

Detected in the blood of general populations in the low parts per billion range where single studies have associated it with infertility, higher cholesterol, and thyroid disease. In highly exposed groups, some studies have associated PFOA exposure with birth defects, increased cancer rates, and changes to lipid levels, the immune system and the liver.

### **IE65 Phthalate Mix**

Used to make plastics softer and more flexible. Wide spread health concerns. This vial contains Benzyl butyl phthalate, Bis(2-ethylhexyl) adipate, Bis(2-ethylhexyl) phthalate, Dibutyl phthalate, Diethyl phthalate, Dimethyl phthalate and Dioctyl phthalate.

### **IE66 Polychlorinated Biphenyls (PCB) Mixed**

A group of chemicals that have been banned but are still found in the environment, electrical equipment, wall coverings, paints and plastic. Have been found in breast milk. This vial contains 2-Chlorobiphenyl, Decachlorobiphenyl, 3,3'-Dichlorobiphenyl, 2,2',3,4',5,5',6-Heptachlorobiphenyl, 2,2',3,3',6,6'-Hexachlorobiphenyl, 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl, 2,2',3,3',4,4',5,5'-Octachlorobiphenyl, 2,3',4,5',6-Pentachlorobiphenyl, 2,2',4,4'-Tetrachlorobiphenyl and 2,4,5-Trichlorobiphenyl.

### **IE67 Polyethylene / Polythene / PE**

Most common plastic. This vial contains high-density polyethylene (HDPE) and low-density polyethylene (LDPE). Used to make milk bottles, washing up liquid bottles, children's toys, carrier bags, bin liners and industrial bags, Also used extensively for consumer packaging including shrink film and squeeze bottles for food, personal care products, etc.. Also found as carpet backing and in joint replacements.

### **IE68 Polyethylene Terephthalate/ Polyester / PET / PETE**

Beverage, food and other liquid containers. Used in synthetic fibers. Trade names include Dacron, Diolen, Tergal, Terylene, Trevira, Cleartuf, Eastman PET, Polyclear, Hostaphan, Melinex and Mylar.

### **IE69 Polylactic acid / Polylactide / PLA**

Biodegradable so use likely to increase. Beverage cups, microwavable disposable trays, deli containers, sandwich packaging, medical sutures and stents.

### **IE70 Polymethylpentene**

Coating for paper food containers for microwave and conventional ovens; used for gas permeable packaging, autoclavable medical and laboratory equipment, microwave components, and cookware.

### **IE71 Polypropylene/ Polypropene / PP**

Second most common plastic. Used for dishwasher-safe and microwavable food containers, drinking straws, yoghurt pots and margarine tubs, confectionery and tobacco packaging. Used for carpets under the trade names of Olefin, Astra, Zylon and Charisma. Other uses include toys, drinking straws, car/automobile interiors, artificial grass, bristles for brushes and brooms, thermal and cold weather sports clothing, and toner for photocopiers and printers.

### **IE72 Polystyrene/ PS**

Yoghurt pots, egg boxes, plastic cutlery and foam drink cups; protective packaging and insulation.

### **IE73 Polytetrafluoroethylene / PTFE / Teflon**

Used in non-stick cookware, plumbers' jointing tape, and as an additive in lubricants.

### **IE74 Tetrachloroethylene / Perchloroethylene / PCE / Ethylene Tetrachloride/ PERC**

A solvent commonly used in dry-cleaning fluid, spot removers, aerosols, shoe polishes and typewriter correction fluid. Also used by car/automobile mechanics. High levels found in breast milk.

### **IE75 Trichloroethylene**

A solvent used to remove grease from textiles and metal parts, and in the extraction of vegetable oils. Restrictions on levels in drinking water.

# Industrial & Environment 4 Test Kit

## 25 vials

*More environmental chemicals including flame retardants, water fluoridation chemicals, some of the toxic substances found in cigarette smoke and Disperse Blue a dark clothing dye known to be highly allergenic.*

### IE 4 76 **Acrolein**

Primarily used as an intermediate in the synthesis of acrylic acid and as a biocide; may be formed in cigarette smoke, from burning oil (including cooking oil), from the breakdown of certain pollutants in outdoor air, vehicle exhaust fumes, and forest and wild fires. Toxic and is a strong irritant for the skin, eyes, and nasal passages.

### IE 4 77 **Acrylonitrile**

In cigarette smoke; used in the manufacture of acrylic and modacrylic fibres; also used as a raw material in the manufacture of plastics; may be released to the air during its manufacture and use; also from landfills, and through incineration of sewage sludge.

### IE 4 78 **Carbon Monoxide / CO**

Produced from the partial oxidation of carbon-containing compounds, forming when there is not enough oxygen to produce carbon dioxide, such as when operating a stove or an internal combustion engine in an enclosed space. Natural sources of CO include volcanoes, forest fires, and other forms of combustion. Produced in normal metabolism in low quantities, and is thought to have some normal biological functions.

### IE 4 79 **Chloroform**

May be released into the air from a large number of sources related to its manufacture and use, including pulp and paper mills, hazardous waste sites, and sanitary landfills; also formed in the chlorination of water (drinking, waste and swimming pools); chlorinated drinking water releases chloroform when hot water is used in the home.

### IE 4 80 **Decabromodiphenyl Ether / Pentabromophenyl Ether**

Flame retardant; used in soft furnishings, some synthetic curtains and the backs of televisions.

### IE 4 81 **Disperse Blue 106 and 124**

Two dark blue textile dyes found in fabrics coloured dark blue, brown, black, purple, and some greens; frequently found in acetate and polyester liners of clothing, and in lycra exercise clothing in these colours; also in dark nylon stockings / panty hose. Known to cause dermatitis.

### IE 4 82 **Fluorosilicic Acid / Hexafluorosilicic Acid / Silicofluoric acid**

The most commonly used chemical for water fluoridation.

### IE 4 83 **1,2,5,6,9,10-Hexabromocyclododecane / HBCD / HBCDD**

A flame retardant; primary application is in extruded and expanded polystyrene foam that is used as thermal insulation in the building industry; also used in upholstered furniture, automobile interior textiles, car cushions and insulation blocks in trucks, packaging material, video cassette recorder housing and electric and electronic equipment.

### IE 4 84 **Hexachlorobutadiene / Hexachloro-1,3-Butadiene / HCBDD**

Used mainly as an intermediate in the manufacture of rubber compounds; also used in the production of lubricants, as a fluid for gyroscopes, as a heat transfer liquid, and in hydraulic fluids. Small amounts found in the air and in drinking water.

### IE 4 85 **Hydrocarbon Mix**

Contains decane, hexadecane, tetratriacontane and pentacontane; the major part of diesel and aviation fuel, part of lubricating oils and anti-corrosive agents.

### IE 4 86 **Indoor Air Pollution Mix**

50 chemicals commonly found (and of concern) in indoor air pollution including 2-propanol, n-undecane, styrene, acetone, m-xylene, etc.

### IE 4 87 **Isoprene / 2-methyl-1,3-Butadiene**

Produced and emitted by many species of trees into the atmosphere (major producers are oaks, poplars, eucalyptus, and some legumes). Cigarette smoke.

**IE 4 88 Isopropanol / Isopropyl Alcohol**

One of the most widely used solvents in the world; also used as a chemical intermediate.

**IE 4 89 n-Butanol / 1-Butanol / Butyl Alcohol**

Present in many foods and beverages; a permitted artificial flavourant in the United States; an ingredient in perfumes and used as a solvent for the extraction of essential oils; used in the manufacture of antibiotics, hormones, and vitamins; as a solvent for paints, coatings, natural resins, gums, synthetic resins, dyes, alkaloids, and camphor; acts as a swelling agent in textiles, as a component of hydraulic brake fluids, cleaning formulations, degreasers, and repellents, and as a component of ore floatation agents, and of wood-treating systems.

**IE 4 90 Polycyclic Aromatic Hydrocarbons / PAH Mix**

Produced when coal, oil, gas, petrol, wood, garbage, forming small particles in the air. High temperature cooking will form PAHs in meat and in other foods. Cigarette smoke contains PAHs. The United States Environmental Protection Agency has designated 32 PAH compounds as priority pollutant. Exposure linked to decreased lung function, neurological disorders, cancer, heart attacks, low birth weight, premature births and childhood developmental delay.

**IE 4 91 Potassium Dichromate**

Most commonly found in cement and leather; also found in chemicals used to etch/clean glass, photography and photographic screen printing. Common allergen.

**IE 4 92 Propylene Dichloride / 1,2-Dichloropropane**

Used as a chemical intermediate in the production of chlorinated organic chemicals, as an industrial solvent, in ion exchange manufacture, in toluene diisocyanate production, in photographic film manufacture, for paper coating, and for petroleum catalyst regeneration. Propylene dichloride is also emitted from landfills.

**IE 4 93 Quinoline**

Used mainly as an intermediate in the manufacture of other products; also used as a catalyst, a corrosion inhibitor, in metallurgical processes, in the manufacture of dyes, as a preservative for anatomical specimens, in polymers and agricultural chemicals, and as a solvent for resins and terpenes. It is also used as an antimalarial medicine. A potential source of very low exposure to quinoline includes the inhalation of ambient air contaminated by emissions from petroleum refining, quenching and coking, and wastewater processing.

**IE 4 94 Sodium Fluoride** Used in water fluoridation.

**IE 4 95 Sodium Fluorosilicate** Used in water fluoridation.

**IE 4 96 Sodium Sulphite**

Used in water treatment and to reduce chlorine levels in pools, and in the pulp and paper industry; used in photographic developing and in the textile industry and the leather trade. Used as a preservative to prevent dried fruit from discolouring and for preserving meats.

**IE 4 97 Sulphur Dioxide**

Major air pollutant, particularly after a volcanic eruption. Can cause breathing difficulty for people with asthma; long-term exposure causes respiratory illness and aggravates cardiovascular diseases; linked to infant death, ischemic stroke, respiratory disease, and premature death. Used as a preservative for dried fruit; used in wine making.

**IE 4 98 3,3',5,5'-Tetrabromobisphenol A / TBBPA / 4,4'-Isopropylidenebis(2,6-dibromophenol)**

A flame retardant used in televisions and printed circuit boards; an endocrine disruptor and immunotoxicant; structurally mimics the thyroid hormone thyroxin (T4) and can bind more strongly to the transport protein transthyretin than T4 does, likely interfering with normal T4 activity.

**IE 4 99 Trihalomethanes Mix**

Many trihalomethanes find uses in industry as solvents or refrigerants. THMs are also environmental pollutants, and many are considered carcinogenic. Formed as a by-product predominantly when chlorine is used to disinfect water for drinking.

**IE 4 100 Vinyl Chloride**

Found in cigarette smoke, used to make PVC plastic and vinyl products. Sources of emissions include the discharge of exhaust gases from factories that manufacture or process vinyl chloride, landfills, or evaporation from areas where chemical wastes are stored.

# Interleukins Test Kit

## 14 vials

*Interleukins are substances that are normally produced by leukocytes (white blood cells) and other cells in the body and help the immune system fight infection and cancer.*

### **IL01 Interleukin-1**

Stimulates the growth and action of immune system cells that fight disease, by participating in the regulation of immune responses, inflammatory reactions, and hematopoiesis (development of mature blood cells). Also helps leukocytes pass through blood vessel walls to sites of infection and causes fever by affecting areas of the brain that control body temperature.

### **IL02 Interleukin-2**

Induces the proliferation of responsive T-cells, and acts on some B-cells, via receptor-specific binding, as a growth factor and antibody production stimulant. Linked to pruritus (itching).

### **IL03 Interleukin-3**

Regulates blood-cell production by controlling the production, differentiation and function of granulocytes and macrophages, so enhances the immune system's ability to fight tumor cells.

### **IL04 Interleukin-4**

Enhances the immune system's ability to fight tumor cells; has an important function in B-cell responses. A key regulator in humoral and adaptive immunity.

### **IL05 Interleukin-5 / Eosinophil Differentiation Factor/ EDF**

Regulates eosinophil growth and activation, and thus plays an important role in diseases associated with increased levels of eosinophils, including asthma and allergic rhinitis.

### **IL06 Interleukin-6 / B-Cell Stimulatory Factor-2 /BSF-2**

A biomarker for inflammation and chronic disease. Plays an essential role in the final differentiation of B-cells into IG-secreting cells, as well as inducing myeloma/plasmacytoma growth, nerve cell differentiation, and, in hepatocytes, acute-phase reactants. Involved in diabetes, atherosclerosis, depression Alzheimer's disease, systemic lupus erythematosus, prostate cancer and rheumatoid arthritis.

### **IL07 Interleukin-7**

Enhances the immune system's ability to fight tumor cells. IL-7 is made by cells in the bone marrow, and can stimulate T cells and B cells to grow. Promotes acute lymphoblastic leukemia, T cell lymphoma. Elevated levels of IL-7 have also been detected in the plasma of HIV-infected patients

### **IL08 Interleukin-8 / Neutrophil Chemotactic Factor**

Induces chemotaxis in target cells, primarily neutrophils but also other granulocytes, causing them to migrate toward the site of infection. Also induces phagocytosis once they have arrived. Known to be a potent promoter of angiogenesis (growth of new blood vessels from existing ones, and necessary for tumours to grow). Often associated with inflammation (e.g. in gingivitis and psoriasis). If a pregnant mother has high levels, there is an increased risk of schizophrenia in her offspring. High levels have also been shown to reduce the likelihood of positive responses to antipsychotic medication in schizophrenia.

### **IL09 Interleukin-9**

Serves as a growth factor for early lymphoid cells of both B- and T-cell lineages. supports IL-2 independent and IL-4 independent growth of helper T-cells.

### **IL10 Interleukin-10 / Human Cytokine Synthesis Inhibitory Factor/ CSIF**

Inhibits the synthesis of a number of cytokines, including IFN-gamma, IL-2, IL-3, TNF, and GM-CSF produced by activated macrophages and by helper T cells. Mice studies suggest it is an essential immuno-regulator in the intestinal tract.; may be relevant in Crohn's disease.

### **IL11 Interleukin-11 / Adipogenesis Inhibitory Factor / AGIF**

Stimulates megakaryocytopoiesis, resulting in increased production of platelets, as well as activating osteoclasts, inhibiting epithelial cell proliferation and apoptosis, and inhibiting macrophage mediator production. May reduce toxicity to the gastrointestinal system resulting from cancer therapy.

### **IL12 Interleukin-12**

Enhances the ability of the immune system to kill tumor cells and may interfere with blood flow to the tumor. involved in the stimulation and maintenance of Th1 cellular immune responses, including the normal host defence against various intracellular pathogens, such as Leishmania, Toxoplasma, Measles virus, and HIV. Also has an important role in pathological Th1 responses, such as in inflammatory bowel disease and multiple sclerosis. Administration of IL-12 to people suffering from autoimmune diseases was shown to worsen the autoimmune phenomena. This is believed to be due to its key role in induction of Th1 immune responses.

### **IL 17A Interleukin- 17A**

Acts as a potent mediator in delayed-type reactions by increasing chemokine production in various tissues to recruit monocytes and neutrophils to the site of inflammation, similar to Interferon gamma. Has been shown to have a pro-inflammatory role in asthma.

### **IL 23 Interleukin-23**

Potently enhances the expansion of T helper type 17 cells, so involved in many of the inflammatory autoimmune responses.



# Invasive Organisms Test Kit

## 8 vials

*Vials representing the essential energy pattern of bacteria, viruses, internal parasites, each group composited in one vial.*

**The starting point for these vials was the individual organisms listed overleaf, but each vial represents more than just the sum total of these organisms: they represent the essential energy pattern of each category.**

### **Bacteria:**

Abundant in air, soil and water. Some are beneficial ( e.g. those living in intestine and breaking down food) and some are harmless to humans. Bacteria which are harmful are known as pathogens. Three main categories: cocci (spherical), bacilli (rod-shaped) and spirochaetes or spirilla (spiral-shaped). Bacteria can grow in an inert medium. Susceptible to antibiotics.

### **Chlamydia:**

Micro-organisms which are intermediate in size between viruses and bacteria; like viruses they can only multiply by first invading the cells of another life-form; otherwise more like bacteria and are susceptible to antibiotics.

### **Fungus:**

Simple parasitic life forms which cause illness by direct poisoning, toxic by-products, allergic reactions and/or colonisation of body tissues. Fungi can be divided into moulds which reproduce by sporing and yeasts which reproduce by budding.

### **Parasite:**

Any organism living in or on any other living creature and deriving advantage from doing so, while causing disadvantage to the host. Internal parasites are commonly acquired by eating contaminated meat, swallowing eggs on food, contaminating fingers with faecal material or through contact with infected water. Scolex is the part of the tapeworm attached by suckers and hooks to gut wall of host; sometimes called head. Proglottides is the segment-like units of the tapeworm body which, when mature, leave the gut of the primary host in the faeces; they are budded off from the scolex.

The life stages of the roundworm: egg larva adult

The life stages of the tapeworm: egg larva encased by body in a cyst adult

The life stages of the fluke: egg miracidia redia cercaria metacercaria adult

### **Protozoa:**

The simplest, most primitive type of animal, consisting of a single cell. Resistant to antibiotics.

### **Rickettsia:**

A type of parasitic micro-organism. They resemble bacteria but are only able to replicate by invading the cells of another life form; rickettsiae are parasites of ticks, lice, etc. These animals can transmit the rickettsiae to humans via their bite or contaminated faeces.

### **Viruses:**

The smallest known type of infective agent. Outside of living cells viruses are inert. They invade living cells, take them over and make copies of themselves. Not susceptible to antibiotics.



#### **IV1: BACTERIA**

- Acinetobacter
- Actinomyces
- Bacilli gram positive and negative
- Bacillus Megaterium
- Bacillus Subtilus
- Bordetella Pertussis
- Borrelia Burgdorferi
- Brucella Abortus
- Campylobacter
- Clostridium Botulinum
- Clostridium Tetani
- Clostridium Welchii
- Cocci Gram Positive and Negative
- Corynebacterium Diphtheriae
- Escherichia Coli/ E.Coli
- Gardnerella Vaginalis
- Haemophilus Influenzae
- Helicobacter Pylori
- Legionella Pneumophila
- Leptospira
- Listeria Monocytogenes
- Mycobacterium Bovis
- Mycobacterium Leprae/ Leprosy
- Mycobacterium Tuberculinum
- Mycoplasma Pneumoniae
- Neisseria Gonorrhoea
- Neisseria Meningitidis
- Pseudomonas Aeruginosa
- Salmonella
- Salmonella Typhi
- Salmonella Paratyphi
- Shigella
- Staphylococcus Aureus
- Staphylococcus Epidermidis
- Streptococcus Agalaciae
- Streptococcus Lactis
- Streptococcus Mutans
- Streptococcus Pneumoniae
- Streptococcus Pyogenes
- Streptococcus Viridans
- Vibrio Cholera
- Yersinia Pestis

#### **IV2: CHLAMYDIA**

- Chlamydia Psittaci
- Chlamydia Trachomatis

#### **IV3: FUNGI**

- Aflatoxin
- Aspergillus Fumigatus
- Aspergillus Niger
- Candida
- Epidermophyton Flocossum
- Microsporum Glypsium
- Trichophyton Rubrum
- Trichophyton Terrestre

#### **IV5: PARASITES: EXTERNAL**

- Cimex
- Culex Imago Female
- Pediculus Humanus Capitis
- Xenopsylla Cheopsis

#### **IV 4: PARASITES: INTERNAL**

- Ancylostoma Caninum
- Ancylostoma Egg
- Ancylostoma Female
- Ascaris Female
- Ascaris Male
- Clonorchis Sinensis
- Dipylidium Mature & Gravid Proglottides
- Echinococcus Granulosus
- Enterobius Vermicularis
- Fasciola
- Fasciola Cercaria
- Fasciola Egg
- Fasciola Redia
- Necator Americanus Eggs
- Onchocerca Volvulus
- Paragonimus Westermani Eggs
- Schistosoma Mansoni Adult Female
- Schistosoma Mansoni Caercariae
- Schistosoma Mansoni Egg
- Schistosoma Mansoni Miracidia
- Taenia Scolex
- Taenia Scolex Immature, Mature & Gravid Proglottides
- Trichinella Spiralis Female
- Trichinella Spiralis Male
- Trichuris Trichiura
- Trichuris Trichiura Egg
- Xenopsylla Cheopsis

#### **IV6: PROTOZOA**

- Balantidium Coli
- Entamoeba Histolytica
- Giardia Lamblia
- Leishmani Donovanii
- Mixed Protozoa
- Plasmodium Falciparum
- Plasmodium Vivax
- Trichomonas Vaginalis
- Trypanosoma Brucei

#### **IV7: RICKETTSIA**

- Coxiella Burnetii/ Q Fever
- Rocky Mountain Spotted Fever

#### **IV8: VIRUSES**

- Cocksackie
- Cytomegalovirus
- Epstein-Barr
- Hepatitis A
- Hepatitis B
- Hepatitis C
- Herpes Simplex 1
- Herpes Simplex 2
- Herpes Zoster/ Shingles
- HIV
- Influenza ( Shangdong A, Singapore A, Panama B, Sichnan A, Beijing A, Yamagata B)
- Measles
- Mumps
- Papilloma Human Virus
- Polio
- Respiratory Syncytial Virus
- Rubella/ German Measles
- Smallpox
- Varicella Zoster/ Chickenpox
- Yellow Fever Virus

# Lectins Test Kit

## 7 vials

Lectins are found in plants and milk. Lectins are sticky and so interact with the lining of the throat and the digestive tract when we eat them. 7 vials / ampules for use in testing by AK practioners and other kinesiologists, bioresonance practitioners, etc.

Lectins are carbohydrate-binding proteins (not to be confused with glycoproteins, which are proteins containing sugar chains or residues). Lectins in plants are a defence against microorganisms, pests, and insects. If an animal eats a lot of the plant it gets digestive disturbances when the sticky lectins bind to the lining of the digestive system. Lectins may also have evolved as a way for seeds to remain intact as they passed through animals' digestive systems, for later dispersal. Lectins are resistant to being broken down as part of the digestive process in humans.

Foods with high concentrations of lectins, such as beans, cereal grains, seeds, nuts, and potatoes, may be harmful if consumed in excess in uncooked or improperly cooked form. Soaking, sprouting and fermenting helps to break down lectins in food, but much modern food is cooked as quickly as possible, so does not break down the lectins before they are ingested. Some people are also more sensitive to lectins than others.

Because we don't digest lectins, we often produce antibodies to them. Almost everyone has antibodies to some dietary lectins in their body. This means our responses vary. Some individual can have full blown allergic reactions. Certain foods can become intolerable to someone after an immune system change or the gut is injured from another source.

Adverse effects may also include nutritional deficiencies (through damage to the villi in the small intestine). Lectins may also cause leptin resistance, which may translate into diseases, particularly weight loss issues in individuals who have high levels of leptin.

Lectins may also be responsible in part for 'leaky gut syndrome'. Plant lectins have been found attached to other organs indicating that some may get through the gut wall. Lectins appear to aggravate existing inflammatory such as rheumatoid arthritis.

References (all web based ones accessed 20th November 2013):

Wikipedia entry on Lectins

Do dietary lectins cause disease? British Medical Journal 1999; 318 (<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1115436/>)

<http://www.marksdailyapple.com/lectins/#axzz2IAyL7h00>

<http://www.precisionnutrition.com/all-about-lectins>

<http://www.vrp.com/digestive-health/digestive-health/lectins-their-damaging-role-in-intestinal-health>

LC 01 Lectins from Dairy

LC 02 Lectins from Egg

LC 03 Lectins from Fruit

LC 04 Lectins from Nightshade

LC 05 Lectins from Nuts

LC 06 Lectins from Soya Bean

LC 07 Lectins from Wheat

# Lyme Plus Test Kit

## 61 vials

14 different babesia species, 24 different bartonella species, 21 different borrelia species, 2 ehrlichia.

Some of the species included have only ever been documented in animals, but because differentiation of the various species is time-consuming and not always carried out when people present with symptoms, these species have been included.

There is some indication of countries where a particular species has been found, but this does not mean that it is only present in the countries listed.

### Cat Scratch Disease

Lymph nodes, especially those around the head, neck, and upper limbs, become swollen. Additionally, a person with CSD may experience fever, headache, fatigue, and a poor appetite.

### Lyme Disease

Typical symptoms include fever, headache, fatigue, and a characteristic skin rash called erythema migrans. If left untreated, infection can spread to joints, the heart, and the nervous system.

### Relapsing Fever

Relapsing or recurring episodes of fever, often accompanied by headache, muscle and joint aches and nausea.

#### LY01 **Anaplasma Phagocytophilum / Ehrlichia Phagocytophilum**

Causes human granulocytic anaplasmosis. Symptoms may include fever, severe headache, muscle aches (myalgia), chills and shaking, similar to the symptoms of influenza. GI symptoms occur in less than half of patients and a skin rash is seen in less than 10% of patients. It is also characterized by thrombocytopenia, leukopenia, and elevated serum transaminase levels in the majority of infected patients.

#### LY02 **Babesia Bigemina**

North and South America, Southern Europe, Africa, Asia and Australia

#### LY03 **Babesia Bovis**

Infects cattle and occasionally humans. Eradicated from the United States by 1943, but is still present in Mexico and much of the world's tropics.

#### LY04 **Babesia Canis**

#### LY05 **Babesia Cati**

#### LY06 **Babesia Divergens**

Has been found in Turkey, Spain, Canary Islands, Tunisia, Austria, France and Norway. Infections have a much higher fatality rate (42%) than with other strains and present with the most severe symptoms: haemoglobinuria followed by jaundice, a persistently high fever, chills and sweats. If left untreated, can develop into shock-like symptoms with pulmonary oedema and renal failure.

#### LY07 **Babesia Duncani**

Can infect humans.

#### LY08 **Babesia Felis**

#### LY09 **Babesia Gibsoni**

#### LY10 **Babesia Herpailuri**

#### LY11 **Babesia Jakimoni**

#### LY12 **Babesia Major**

#### LY13 **Babesia Microti / Theileria Microti**

Common in US. For 25% of cases in adults and half of cases in children, the disease is asymptomatic or mild with flu-like symptoms. Symptoms are characterized by irregular fevers, chills, headaches, general lethargy, pain and malaise.

#### LY14 **Babesia Ovale**

#### LY15 **Babesia Pantherae**

#### LY16 **Bartonella Alsaticca**

#### LY17 **Bartonella Arupensis**

#### LY18 **Bartonella Bacilliformis**

Causes Carrion's disease (Oroya fever, Verruga peruana).

#### LY19 **Bartonella Berkhoffii**

Becoming more important particularly for immunocompromised individuals.

#### LY20 **Bartonella Birtlesii**

#### LY21 **Bartonella Bovis**

#### LY22 **Bartonella Capreoli**

#### LY23 **Bartonella Clarridgeiae**

Found in domestic cats and can give humans Cat Scratch Disease

#### LY24 **Bartonella Doshiae**

May cause Cat Scratch Disease.

#### LY25 **Bartonella Elizabethae / Rochalimaea Elizabethae**

Endocarditis. Particularly among homeless IV drug users.

**LY26 Bartonella Grahamii**

Endocarditis and Neuroretinitis

**LY27 Bartonella Henselae / Rochalimaea Henselae**

Can cause bacteremia, endocarditis, bacillary angiomatosis, and peliosis hepatis. Causes cat-scratch disease.

**LY28 Bartonella Koehlerae**

Human infection may be from infected cats.

**LY29 Bartonella Melophagi**

Discovered in 2007 and known to infect humans.

**LY30 Bartonella Muris**

**LY31 Bartonella Peromyscus**

**LY32 Bartonella Quintana / Rochalimaea Quintana / Rickettsia Quintana**

Causes trench fever. Can start out as an acute onset of a febrile episode, relapsing febrile episodes, or as a persistent typhoidal illness. Commonly seen are maculopapular rashes, conjunctivitis, headache and myalgias, with splenomegaly being less common. Most patients present with pain in the lower legs (shins), sore muscles of the legs and back, and hyperaesthesia of the shins.

**LY33 Bartonella Rochalimae**

Carrion's disease-like symptoms.

**LY34 Bartonella Schoenbuchii**

**LY35 Bartonella Talpae**

**LY36 Bartonella Taylorii**

**LY37 Bartonella Tribocorum**

**LY38 Bartonella Vinsonii / Rochalimaea vinsonii**

On increase. Causes endocarditis, arthralgia, myalgia, headaches and fatigue.

**LY39 Bartonella Washoensis**

May cause fever and myocarditis.

**LY40 Borrelia Afzelii**

Has been found in Europe, USA, Singapore, Australia and New Zealand.

**LY41 Borrelia Berbera**

Found in Algeria, Tunisia and Libya.

**LY42 Borrelia Burgdorferi**

Found in USA, Europe, Australia, New Zealand

**LY43 Borrelia Carteri**

Uncommon but has been found in humans in India.

**LY44 Borrelia Caucasica**

Found in Europe and Asia.

**LY45 Borrelia Duttonii**

Found in Europe and Africa. Causes Central African relapsing fever.

**LY46 Borrelia Garinii**

Has been found in Europe.

**LY47 Borrelia Hermsii**

Associated with relapsing fever. The primary cause of tick-borne relapsing fever in North America. Also found in Europe.

**LY48 Borrelia Hispanica**

Found in Spain, Portugal, Morocco and central Africa.

**LY49 Borrelia Kochis**

**LY50 Borrelia Miyamotoi**

Symptoms of relapsing fever. Found in Russia, Japan, Europe and North America.

**LY51 Borrelia Morganii**

**LY52 Borrelia Novyi**

Found in the Americas.

**LY53 Borrelia Parkeri**

Human infection.

**LY54 Borrelia Persica**

Found in Europe and Asia.

**LY55 Borrelia Recurrentis**

Found in England, Ireland, USA, Canada, Mexico, Central and South America, central Asia, Africa, and around the Mediterranean.

**LY56 Borrelia Tillaie**

Found in Europe.

**LY57 Borrelia Turicatae**

Found in Europe.

**LY58 Borrelia Valaisiana**

Causes Lyme's disease.

**LY59 Borrelia Venezuelensis**

Causes relapsing fever in central and south America.

**LY60 Borrelia Vincentii**

Exists normally in the human mouth in low concentrations and safe proportions. Causes severe ulcerating gingivitis (trench mouth); typically found in those with poor oral hygiene but can also occur as a result of stress, cigarette smoking and poor nutrition; also can be found in those with serious illnesses.

**LY61 Ehrlichia Chaffeensis / Human Monocytic Ehrlichiosis**

Causative agent of human monocytic ehrlichiosis.

# Medicinal Herbs Test Kit

## 50 vials

50 common medicinal herbs including Milk Thistle, Agnus Castus, Korean Ginseng, Golden Rod, Vervain . There is some overlap with the Medicinal Herbs For Women Test Kit, but the price of the two kits reflects this.

### MH01 **Agnus Castus / Chaste Berry/ Monks' Pepper**

Vitex agnus castus  
Hot flushes, and for premenstrual syndrome, period pains and teenage acne. Promotes fertility.

### MH02 **Agrimony**

Agrimony eupatoria  
Astringent tonic for digestive system. Pain especially of the urinary system. Sore throat and gums. Used as an ointment for bruises and wounds.

### MH03 **Berberis /Barberry**

Berberis vulgaris  
Digestive problems; gentle liver tonic and laxative.

### MH04 **Bearberry / Uva-Ursi**

Arctostaphylos uva-ursi  
Cystitis and urinary tract infections.

### MH05 **Burdock**

Arctium lappa  
Liver and skin problems. Hot flushes.

### MH06 **Cascara Segrada Bark**

Rhamnus purshiana  
Chronic constipation.

### MH07 **Chamomile**

Matricaria recutita and Anthemis nobilis  
Relaxes nerves and eases digestive complaints. Good for insomnia, skin rashes and burns, sore throats and menstrual cramps.

### MH08 **Chickweed**

Stellaria media  
Cuts, wounds, itching and skin irritation.

### MH09 **Cinnamon**

Cinnamomum sp.  
May enhance insulin sensitivity; digestive stimulant, may reduce menstrual bleeding.

### MH10 **Cleavers / Clivers**

Galium aparine  
Mild diuretic and blood and lymph cleanser. Used for psoriasis and other skin complaints, swollen glands and bladder infections.

### MH11 **Cramp Bark**

Viburnum opulus  
For muscular tension, spasms and cramp. Menstrual cramp and excessive blood loss during periods.

### MH12 **Dandelion Root & Leaf**

Taraxacum officinale  
Strengthens liver function and stimulates digestion. Safe diuretic for fluid retention.

### MH13 **Devil's Claw**

Procumbens harpagophytum  
Anti-inflammatory so useful for arthritis, sports injuries, fibromyalgia and tendonitis.

### MH14 **Dong Quai (as tincture)**

Angelica sinensis  
Hot flushes and menstrual cramps.

### MH15 **Echinacea / Eastern Purple Coneflower**

Echinacea angustifolia and E. purpurea  
Stimulates the immune system and wards off coughs, colds and other infections. Sinusitis, thrush, urinary tract infection and middle ear infections.

### MH16 **Eucalyptus Leaves**

Eucalyptus globulus  
Anti-microbial and an expectorant. Gingivitis, fevers and infections, especially of the respiratory system.

### MH17 **Eyebright**

Euphrasia officinalis  
Mucus membrane problems, catarrh, sinusitis, hay fever, conjunctivitis and blepharitis.

### MH18 **Feverfew**

Tanacetum parthenium  
Migraine headaches. Helps digestion. Pain relief including period pains.

### MH19 **Ginkgo Biloba**

Ginkgo biloba  
Aids memory and concentration. May slow down the progress of Alzheimer's disease; lessen depression and anxiety in the elderly. Coldness in the extremities (Raynaud's disease). Tinnitus, dizziness (vertigo), leg cramps and chilblains.

### MH20 **Ginseng Korean**

Panax ginseng  
Combats stress, boosts vitality, enhances immunity. May lower blood sugar levels.

### MH21 **Ginseng Siberian**

Eleutherococcus Senticosus  
Reduces stress and fatigue. Enhances immune function, reduces cortisol levels and inflammatory response, and it promotes improved cognitive and physical performance. A female tonic useful for the menopause.

### MH22 **Golden Rod**

Solidago Virgaurea  
Upper respiratory problems, sinusitis, hay fever, influenza, flatulence and cystitis.



**MH23 Golden Seal**

*Hydrastis canadensis*

Mouth ulcers, cold sores and eye infections. Helps digestion and the immune system.

**MH24 Hawthorne Berry**

*Crataegus oxyacantha*

Heart tonic - high and low blood pressure, angina and anxiety.

**MH25 Horse Chestnut**

*Aesculus hippocastanum*

Varicose veins, haemorrhoids, phlebitis and poor blood circulation.

**MH26 Hyssop**

*Hyssopus officinalis*

Common cold, bronchitis, chronic catarrh.

**MH27 Liquorice**

*Glycyrrhiza glabra*

Benefits the adrenal glands. Catarrh, bronchitis and coughs, abdominal colic. Hormonal tonic herb.

**MH28 Marshmallow Leaf & Root**

*Althaea officinalis*

Soothes mucous membranes, especially those of the digestive and urinary system.

**MH29 Milk Thistle / Silymarin**

*Silybum marianum*

Strengthens and repairs the liver. Aids fat metabolism. Helps prevent gall stones. Skin diseases.

**MH30 Mistletoe**

*Viscum album*

High blood pressure, nervous tachycardia and headaches.

**MH31 Mugwort**

*Artemisia vulgaris*

Digestive stimulant and can help depression and tension. Menstrual problems.

**MH32 Nettle**

*Urtica dioica*

Inflamed joints and arthritis. Eczema and hay fever. Iron deficiency.

**MH33 Passion Flower**

*Passiflora incarnata*

Nerve pains, shingles and insomnia. Calming sedative.

**MH34 Pau D'Arco**

*Tabebuia impositosa*

Anti-bacterial, anti-fungal and anti-viral particularly for nose, mouth, throat and digestive system. Immune tonic.

**MH35 Peppermint**

*Mentha piperata*

Digestive relaxant. Irritable bowel and colicky pains.

**MH36 Plantain Leaf**

*Plantago major* and *Plantago lanceolata*

Anti-infective, anti-inflammatory, anti-histamine - for cuts, bites, stings and wounds.

**MH37 Raspberry Leaf**

*Rubus idaeus*

Diarrhoea, mouth ulcers, bleeding gums and sore throats. Uterine tonic for pregnancy or heavy periods.

**MH38 Red Clover**

*Trifolium pratense*

Eczema and psoriasis, coughs, bronchitis, swollen lymph glands. Menopausal hot flushes.

**MH39 Saw Palmetto**

*Sabal serrulata*, *Serenoa repens*

Enlarged prostate, male pattern baldness, impotence, frequent night time urination.

**MH40 Senna Pods**

*Cassia angustifolia*

Constipation.

**MH41 Skullcap**

*Scutellaria lateriflora*

Nervous tension including premenstrual tension. Nervous system tonic.

**MH42 Slippery Elm Bark**

*Ulm fulva*

Digestive problems such as gastritis, colitis and ulcers.

**MH43 St Johns Wort / Hypericum**

*Hypericum perforatum*

Depression and anxiety disorders, seasonal affective disorder. Irritable bowel syndrome, migraine, insomnia, cramps and spasms. Viral infections.

**MH44 Valerian**

*Valeriana officinalis*

Restlessness, insomnia, migraine, pain, stomach cramps and colic. A muscle relaxant.

**MH45 Vervain**

*Verbena officinalis*

Depression. Early stages of fevers. Hot flushes. Nerve pains.

**MH46 Walnut: Leaves, Bark And Hulls**

*Juglans regia*

Skin problems including herpes and eczema. Anti fungal. Gentle laxative.

**MH47 White Willow Bark**

*Salix alba*

Chronic pain and arthritis. May lower fevers. If have aspirin allergy, may also be allergic to this herb.

**MH48 Wild Yam**

*Dioscorea villosa*

Menstrual cramps and endometriosis. Reduces inflammation. Digestive colic and pain.

**MH49 Yellow Dock**

*Rumex crispus*

Liver and lymph cleanser. Gentle laxative.

**MH50 Yarrow**

*Achillea millefolium*

Menstrual problems especially heavy periods. Circulatory system remedy. Fever, flu and colds.



# Medicinal Herbs for Women Test Kit

## 25 vials

*Herbs specifically for women including Black Cohosh, Angelica, Shepherds Purse and Mugwort. There is some overlap with the Medicinal Herbs Test Kit, but the price of the two kits reflects this.*

### MHW1 **Angelica**

Angelica archangelica  
Pelvic congestion. PMS. Low oestrogen. Warming digestive bitter tonic. Urinary and vaginal irritation.

### MHW2 **Black Cohosh**

Cimicifuga racemosa  
Painful periods, low oestrogen, menopausal hot flushes, vaginal dryness, PMS with irritability. Can cause headaches and liver problems - low doses only.

### MHW3 **Butchers Broom**

Ruscus aculeatus  
Painful & heavy periods, menopause, PMS, mastalgia.

### MHW4 **Chaste Berry / Agnus Castus**

Vitex agnus castus  
Regulates oestrogen/progesterone balance. PMS, irregular menses, menopausal problems, infertility.

### MHW5 **Cinnamon**

Cinnamomum spp.  
Painful periods, fibroids, endometriosis.

### MHW6 **Cramp Bark**

Viburnum opulus  
Painful and heavy periods. Ovulation pain. Endometriosis. PCOS. Uterine congestion.

### MHW7 **Damiana**

Turnera aphrodisiaca  
Low libido especially in menopause, inflammatory uterine problems. PMS. Fibrocystic breasts. Bladder tonic.

### MHW8 **Dong Quai**

Angelica sinensis  
General female tonic. Painful periods, uterine congestion, uterine tonic, PMS. Not to be taken while menstruating or with heavy periods.

### MHW9 **Fenugreek**

Trigonella foenum-graecum  
Oestrogenic, gentle laxative, warming digestive. Benefits lactation. Aphrodisiac.

### MHW10 **Jasmine**

Jasminium grandiflorum  
Uterine congestion. Heavy and painful periods. Aphrodisiac. PMS. Stress, insomnia, anxiety.

### MHW11 **Lady's Mantle**

Alchemilla vulgaris  
Irregular, painful or heavy periods. Fertility. Menopause.

### MHW12 **Liquorice**

Glycyrrhiza glabra  
Normalises and regulates hormone production. Adrenal tonic. Not with high blood pressure.

### MHW13 **Motherwort**

Leonorus cardiaca  
Uterine stimulant and sedative. PMS. Menopausal hot flushes, palpitations.

### MHW14 **Mugwort**

Artemisia vulgaris  
Uterine stimulant. Restores menstrual cycle. Liver congestion. Warming digestive bitter.

### MHW15 **Oats**

Avena sativa  
Fatigue, stress, anxiety, depression, insomnia, PMS. Lactation.

### MHW16 **Paeony**

Paeonia lactiflora  
Uterine congestion. Heavy and painful periods. PMS. Menopausal hot flushes.

### MHW17 **Pasque Flower**

Anemone pulsatilla  
Small doses only. Not long term use. Painful periods. PMS with depression. Menopausal anxiety, hot flushes.

### MHW18 **Raspberry Leaf**

Rubus idaeus  
Uterine tonic. Use in pregnancy and childbirth. Nutritional especially calcium and iron. Heavy periods.

### MHW19 **Sage**

Salvia officinalis  
Low oestrogen, menopausal hot flushes, PMS with fatigue and irritability, promotes and regulates menstruation. Can cause headaches - low doses only.

### MHW20 **Shatavari**

Asparagus racemosus  
Uterine tonic. Infertility. Improves lactation. Menopausal hot flushes, irritability and dryness.

### MHW21 **Shepherds Purse**

Capsella bursa pastoris  
Heavy periods. Post partum bleeding.

### MHW22 **Siberian Ginseng**

Eleutherococcus senticosus  
Balances hormones, regulates menstruation, infertility, fatigue, stress.

### MHW23 **Vervain**

Verbena officinalis  
Relieves tension and pain – uterine, headaches, nerves. Promotes menstruation and lactation. Menopausal hot flushes especially with stress.

### MHW24 **Wild Yam**

Dioscorea villosa  
Hormone balancing. Menstrual problems, infertility, menopause, endometriosis.

### MHW25 **Yarrow**

Achillea millefolium  
Heavy and painful periods. Post partum bleeding.

# Metals & Minerals Test Kit

## 32 vials

**Vials representing minerals and metals that people encounter in food and the environment.**

**(This is an updated kit in 2018 & replaces what was the Common Metals Test Kit.)**

Code	Name	Food Sources	Non-Food Sources	Possible Deficiency	Toxicity
CE 01	Aluminium		aluminium cooking pans; aluminium foil; table salt & baking powder; aluminium cans; antacids; bleached flour; mains water treatment (aluminium sulfate); some food additives; deodorants; acid rain leaches aluminium out of the soil and into the ground water.		Contact dermatitis; skeletal demineralization; slow learning; interference with calcium and phosphorus metabolism, neurofibrillary tangles in the brain.
CE 02	Arsenic		Wood preservative; pesticide; leather, termite treated lumber, rat poisoning, pesticides, herbicides, pigments. Drinking water in areas where there are arsenic deposits (More than 140 million people worldwide and 4 million Americans chronically ingest arsenic in their drinking water). High levels may be found in rice, as a result of water used in growing the crop, being contaminated with arsenic from arsenic-based-pesticides even though use may have been stopped many years ago)		Edema of face and eyelids; generalised itching; sore mouth; inflammation of the eyes and nasal membranes; loss of appetite; nausea; vomiting; diarrhoea; dry skin; loss of hair and nails; may reduce intelligence in children. There are also well-documented risks of cancer, heart disease, and reduced lung function; may lead to stem cell dysfunction that impairs muscle healing and regeneration.
CE 03	Beryllium		Light structural material; beryllium oxide is used in ceramics, naturally found in tobacco; some dental alloys.		Reduces stores of magnesium; reduces organ function; shortness of breath; coughing; lung inflammation; tinnitus.
CE 04	Boron		Fiberglass (insulation), polymers, ceramics, fertilizer, insecticides, laundry detergent.	Arthritis, allergies, weak muscles, low testosterone, brain health.	Reproductive infertility, eye, nose, and throat irritation.
CE 05	Cadmium		Cigarette smoke, galvanised iron; pesticides; plastics; fertilisers; tyres; plating; component in alloys and solders; PVC stabiliser, pigments, paints, pottery. Cadmium from industrial waste can leach back into soil and water and isn't degraded and so enters the food chain.		Disrupts the transport of the essential metals manganese and zinc into and out of cells; anaemia; kidney damage; probably carcinogenic; high blood pressure; lung damage; atherosclerosis; leg pain in children & adults; arthritis; Alzheimer's disease.

CE 06	Calcium	Dairy products, eggs, canned fish with bones (salmon, sardines), green leafy vegetables, nuts, seeds, tofu, thyme, oregano, dill, cinnamon.	Preparation of other metals; calcium oxide important in chemical industry; present in hard water.	Reduction in peak bone mass; increased risk of osteoporosis in later life; nerve sensitivity; insomnia; chronic depression; synthesis and release of neuro-transmitters.	Depressed nerve function, drowsiness, extreme lethargy, calcium deposits, kidney stones.
CE 07	Chlorine	Table salt (as sodium chloride)	Manufacture of chemicals, plastics, paper, purification of water and sewage. Sodium chloride used to de-ice roads.		
CE 08	Chromium	Broccoli, grape juice (especially red), meat, whole grain products	Dental work; metal plating & anodizing aluminium; stainless steel; hip replacements; leather tanning; paints; dyes; explosives; cement.	Diabetes; hypoglycemia; alcohol intolerance; irritability; weakness.	Lung disease, anaemia, cerebral oedema, eczema, headaches gastric ulcers.
CE 09	Cobalt		Manufacture of tungsten carbide; hip replacements	Anaemia.	Goitre; hypothyroidism; heart failure; tremors; polycythemia.
CE 10	Copper	Liver, seafood, oysters, nuts, seeds; some: whole grains, legumes	Copper water pipes (particularly in soft water areas); some medicines; pesticides; fungicides; blood copper levels raised by the contraceptive pill; brake linings; wiring; some contraceptive devices; dental amalgam; coins, algicides in hot tubs.	Rheumatoid arthritis; cardiovascular disease; impaired immune system; affects bone & blood formation in infants; possible role in cardiovascular disease.	Rheumatoid arthritis; cardiovascular disease; gastro-intestinal irritation (similar to deficiency signs). Zinc deficiency symptoms.
CE 11	Gold		Dental work; jewellery; gold salts for treating rheumatoid arthritis.		Mouth ulceration; itching; eczema; seborrheic dermatitis; alopecia; inflamed gums; gastritis; colitis; blood abnormalities; kidney damage (from the effect of gold salts).
CE 12	Iodine	Seaweed, grains, eggs, iodised salt		Goitre, reduced growth.	Excess salivation, sneezing, conjunctivitis, headaches, laryngitis, bronchitis, skin rashes; low sperm count.

CE 13	Iron	Meat, seafood, nuts, beans, dark chocolate	Metal for building; steel, toner for photocopiers and printers, food additive, stainless steel, cast iron cookware.	Anaemia; fatigue; cracking at corner of mouth; recurrent mouth ulcers; sore tongue; poor hair growth; brittle nails; generalized itching.	Abdominal pain; arthritis; loss of libido; damage to liver, heart and pancreas; people with certain neuro-degenerative disorders such as Parkinson's disease and dementia show excessive accumulation of iron in the brain.
CE 14	Lead		Leaded petrol fumes; old water pipes; leaded paint; lead plumbing; solder; improperly glazed pottery; cigarette ash; pewter; lead crystal ware.		Loss of appetite; constipation; headache; weakness; blue or black line on gums; anaemia; irritability; vomiting; poor coordination; unsteady gait; visual disturbances; delirium; paralysis; kidney failure; mainly deposited in bones and teeth.
CE 15	Magnesium	Spinach, legumes, nuts, seeds, whole grains, peanut butter, avocado	Present in hard water; alloys; batteries; glass; ceramics; fillers; flocculating agents; magnesium sulphate used in sugar refining.	Muscle dysfunction; irritability & tension; fatigue; premenstrual syndrome; apathy.	Muscle weakness; fatigue; sleepiness; hyperexcitability.
CE 16	Manganese	Grains, legumes, seeds, nuts, leafy vegetables, tea, coffee	Textile bleaching, glass manufacture, fertilizers, compounds used in unleaded petrol and pesticides, pottery glazes.	Joint pains; dizziness; schizo-phrenia.	Lethargy; involuntary movements; impairment of voluntary movements; changes in muscle tone.
CE 17	Mercury		Dental amalgam; pesticides; fungicides; cystitis from coal-burning power stations, contaminated fish, vaccines, volcanic emissions, vaccines.		Tremor; muscle instability; sensory disturbances; gastro-intestinal symptoms; dermatitis; liver and kidney damage; anaemia; mental deterioration; blue line on gums.
CE 18	Molybdenum	Legumes, whole grains, nuts	Compounds used in lubricants.	Irritability; irregular heart beat; dental caries; male sexual impotence; cancer of the oesophagus, works as an antioxidant.	Gout; increased urinary excretion of copper.

CE 19	Nickel		Stainless steel; water boiled in a kettle with an element; clasps; jewellery; spectacles; buckles; keys; coins; diesel fumes; can be in flour because of milling; a catalyst for hydrogenating vegetable oils.	May activate certain enzymes and play a role in stabilizing chromosomal material in cell nuclei but at the moment no known diseases are associated with a nickel deficiency.	May be a factor in lung cancer; frontal headaches; vertigo; nausea; vomiting; chest pain; cough. Dermatitis from skin contact with nickel in sensitive people.
CE 20	Palladium		Road dust from catalytic converters; dental work; electrical components.		Possibly carcinogenic.
CE 21	Phosphorus	Red meat, dairy foods, fish, poultry, bread, rice, oats.		Debility; loss of appetite; weakness; bone pain; tingling sensations; tremor; irritability.	Prevents absorption of iron, calcium, magnesium & zinc; diarrhoea; calcification of soft tissues.
CE 22	Platinum		Jewellery, dental fillings, pacemakers, tobacco, road dust from catalytic converters, LCDs, chemotherapy agents; high quality glassware.	Platinum compounds have anti-tumor activity.	Platinum salts can cause DNA alterations, cancer, allergic reactions of the skin and the mucous membranes, damage to organs (such as intestines, kidneys and bone marrow) and hearing damage.
CE 23	Potassium	Sweet potato, tomato, potato, beans, lentils, dairy products, seafood, banana, prune, carrot, orange		Hypo-kalaemia; can be caused by diarrhoea, medications like furosemide and steroids, dialysis, diabetes insipidus, hyper-aldosteronism, hypomagnesaemia, and shortage in the diet.	Hyperkalaemia; usually no symptoms; occasionally when severe results in palpitations, muscle pain, muscle weakness, or numbness.
CE 24	Selenium	Brazil nuts, seafoods, organ meats, meats, grains, dairy products, eggs	Anti-dandruff shampoos; steel and glass additive.	Possible links with some forms of cancer & development of coronary heart disease; premature ageing.	Hair loss, nail changes and loss, fatigue, irritability, nausea, gastrointestinal problems, joint inflammation, "garlic breath", dental caries; skin depigmentation; irritability.

CE 25	Silicon		Granite dust; sand, cement, porcelain, semiconductor electronics; ingredient in some toothpastes.	Poor skin, nails, hair and bone density. Needed for synthesis of elastin and collagen, of which the aorta contains the greatest quantity in the human body.	Inhalation of crystalline silica dust may lead to silicosis, an occupational lung disease marked by inflammation and scarring in the form of nodular lesions in the upper lobes of the lungs.
CE 26	Silver		Dental amalgam; jewellery; food coloring (E174); electrical components; silver compounds used in photography.		Argyria (blue-gray/ashen gray darkening of the eyes, nose, throat, skin and nasal septum), kidney damage.
CE 27	Sulphur / Sulfur		Natural gas, petroleum, fertilizer, insecticides, matches, wood pulping, rubber vulcanisation, products for treating acne, dandruff, psoriasis etc.	Detoxification, proper insulin function, Vitamins B1 and B7 activation, mitochondrial function.	Digestive issues, flatulence, hives, fatigue.
CE 28	Thallium		Found in association with potassium-based minerals in clays, soils, and granites; by-product of zinc & lead production; some glass; jewellery; dyes; pigments; electronics; recreational drug contaminant.		Polyneuritis; fatigue; weight loss; possibly reduced immunity; leg pain in adults; arthritis; MS; Alzheimer's; peripheral neuropathy; fatigue; weight loss; possibly reduced immunity; leg pain in adults; arthritis; MS; Alzheimer's disease; probably carcinogenic.
CE 29	Tin		Dental amalgam; canning; solder in iron & copper pipes; compounds used in fungicides and glass coatings.		Nausea; colic; headache; weakness; fever; muscle pain; joint pain; tinnitus.
CE 30	Titanium		Dental work; surgical metal in hip replacements etc.; jewellery; sunscreen, filler in many prescription and OTC medicines, cosmetics (as titanium dioxide).		Possible effects on respiratory system and the brain; may be carcinogenic.
CE 31	Zinc	Oysters, red meat, poultry, nuts, whole grains, dairy products	Galvanised iron; brass; solder; die-casting; tires; zinc oxide is used in paints, rubber, textiles, sunscreens and plastics.	Persistent leg ulcers & pressure sores; red, greasy skin on face; skin problems, poor hair growth; dandruff; night blindness; brittle nails; white spots on nails.	Impaired copper & iron absorption; gastro-intestinal disturbances; mask-like fixed expression; difficulty in walking; slurred speech; hand tremor; involuntary laughter.
CE 32	Zirconium		Dental implants, nuclear power, ceramics, glassware, antiperspirants, skin lotion, synthetic dyes, etc.		Pulmonary fibrosis, general pulmonary issues, granulomata.



# Mycotoxins Test Kit

## 27 vials

*Mycotoxins are produced by molds. One mold species may produce many different mycotoxins, and the same mycotoxin may be produced by several species.*

*Mycotoxins have the potential for both acute and chronic health effects via ingestion, skin contact, and inhalation. These toxins can enter the blood stream and the lymphatic system. They inhibit protein synthesis, damage macrophage systems, inhibit particle clearance of the lung, and increase sensitivity to bacterial endotoxin.*

*There is evidence that they can cause cancers, kidney damage, gastrointestinal disturbances, reproductive disorders and suppression of the immune system.*

### MT01 **Aflatoxins**

Produced by *Aspergillus*

Symptoms include anorexia, lethargy, muscle weakness, liver problems (haemorrhages, necrosis and cancer) and engorged kidneys.

### MT02 **Alternariol**

Produced by *Alternaria*

A toxic metabolite of the *Alternaria* fungi. Naturally occurs on fruits, vegetables, and cereals, such as apples, tomatoes, and wheat. Inhibited by light. Highly toxic. May be mutagenic.

### MT03 **Altartoxin**

Produced by *Alternaria*

### MT04 **Brevianamide**

Produced by *Aspergillus* sp. (particularly *Aspergillus ustus*); *Penicillium* sp.

Causes inflammatory response in lung cells.

### MT05 **Chaetoglobosin A,B,C**

Produced by *Chaetomium*, *Penicillium discolor*

Found in water-damaged houses and in air-conditioning systems.

### MT06 **Citreoviridin**

Produced by *Aspergillus terreus*, *Penicillium toxicarium*, *Penicillium ochrosalmoneum*

It is believed to be the cause of the acute cardiac Beri-Beri disease.

### MT07 **Citrinin**

Produced by *Aspergillus carneus*, *Penicillium citrinum*, *Penicillium expansum*, *Penicillium verrucosum*

Occurs mainly in stored grains, but also in other plant products such as beans, fruits, fruit and vegetable juices, herbs and spices, and also in spoiled dairy products; the cause of yellow rice disease in Japan. Has been shown to result in enlarged kidneys and livers in young broiler chicks.

### MT08 **Cladosporic Acid**

Produced by *Cladosporium*

### MT09 **Cyclopiazonic Acid**

Produced by *Aspergillus flavus*, *Aspergillus versicolor*, *Penicillium camemberti*, *Penicillium commune*, *Penicillium griseofulvum*, *Penicillium palitans*

### MT10 **Cytochalasin**

Produced by *Aspergillus clavatus*, *Bioploaris*, *Phoma*, *Zygosporium*

Inhibits cellular processes such as cell division,

### MT11 **Diplodiatoxin**

Produced by *Diplodia*

### MT12 **Fumonisin**

Produced by *Fusarium moniliforme*

Found in wheat and maize. Also to a lesser extent in rice, sorghum and navy beans. Implicated in oesophageal cancers.

### MT13 **Gliotoxin**

Produced by *Penicillium*, *Aspergillus*, *Alternaria*, *Trichoderma*, *Gliocladium*

Possesses immunosuppressive properties. May be implicated in autism.

**MT14 Ochratoxin A**

Produced by *Aspergillus niger*, *Aspergillus ochraceus*, *Penicillium verrucosum*, *Penicillium nordicum*  
Found as a contaminant of a wide range of commodities including beer, wine, grains and cereal products, dried vine fruit, coffee, grape juice, processed cereal based foods and baby foods. Most European pork has trace amounts of ochratoxin. May be a human carcinogen (particularly urinary tract cancers) and also kidney disorders.

**MT15 Ochratoxin Mix**

Produced by Found as a contaminant of a wide range of commodities including beer, wine, grains and cereal products, dried vine fruit, coffee, grape juice, processed cereal based foods and baby foods. May be a human carcinogen.

**MT16 Patulin**

Produced by *Paecilomyces*, *Penicillium* sp., *Aspergillus* sp.  
Associated with a range of mouldy fruits and vegetables, in particular rotting apples (but not cider) and figs.

**MT17 Penicillic Acid**

Produced by *Aspergillus ochraceus*, *Penicillium aurantiocandidum*, *Penicillium brasilianum*, *Penicillium melanoconidium*, *Penicillium polonicum*, *Penicillium veridicatum*  
Toxic and carcinogenic.

**MT18 Roridin E**

Produced by *Stachybotrys chartarum*  
Found in water-damaged houses.

**MT19 Rubratoxin**

Produced by *Penicillium crateiforme*  
Found on cereal grains.

**MT20 Satratoxin G & H**

Produced by *Stachybotrys chartarum*  
Found in water-damaged houses; toxic to humans and animals. Possible symptoms are a rash that becomes a moist dermatitis, nosebleeds, chest pain, pulmonary haemorrhage, hyperthermia (raised temperature), headaches and fatigue.

**MT21 Sporidesmin**

Produced by *Bioploaris*, *Pithomyces chartarum*  
Facial eczema in animals.

**MT22 Sterigmatocystin**

Produced by *Aspergillus nidulans*, *Chaetomium*, *Emericella nidulans*, *Bioploaris*  
Found in water-damaged buildings and some food. Found at significant frequency in urine and blood of patients with gastric or liver cancer; *Helicobacter pylori* facilitates Sterigmatocystin induced gastric cancer. Highly toxic and carcinogenic.

**MT23 Tenuazonic acid**

Produced by *Alternaria*, *Phoma*  
Found in grain and grain-based products, vegetables (particularly tomato products), fruits and fruit products, wine, beer, sunflower seeds and sunflower oil. It inhibits the protein synthesis machinery.

**MT24 Trichothecene**

Produced by *Myrothecium*, *Memnoniella*, *Phomopsis*, *Stachybotrys chartarum*, *Trichothecium*, *Cylindrocarpum*, *Fusarium*  
-Synthesised by around 300 fungal species, infecting the grain of developing cereals such as wheat and maize. Reduces immune response.

**MT25 Viriditoxin**

Produced by *Aspergillus brevipes*, *Aspergillus fumigatus*, *Aspergillus viridinutans*, *Paecilomyces*  
Inhibits cell division.

**MT26 Walleminol**

Produced by *Wallemia*  
Found on cereals, pulses, dried fruit, cakes, confectionary, preserves. Toxic for some animals.

**MT27 Zearalenone**

Produced by *Fusarium*  
Commonly found in maize but can be found also in other crops such as wheat, barley, sorghum and rye, particularly during cool, wet growing and harvest seasons. Has been found in bread. A naturally occurring oestrogen that is well recognised as causing hormonal effects in animals.

# Neurotransmitter Test Kit

## 13 vials

*Important neurotransmitters that affect breathing, digestion, mood and much else.*

*All these vials are available in other kits (Body Biochemicals and Hormone and Amino Acids Test Kits). This kit simply brings the most important neurotransmitters together in one place.*

### N1 01 **Acetylcholine / ACh**

Acts on both the peripheral nervous system and central nervous system and is the only neurotransmitter used in the motor division of the somatic nervous system. Also the principal neurotransmitter in all autonomic ganglia. In cortex increases responsiveness to sensory stimuli; decreases heart rate and contraction strength, dilates blood vessels, increases peristalsis in the stomach and digestive contractions, decreases bladder capacity, increases voluntary voiding pressure; also affects the respiratory system and stimulates secretion by all glands that receive parasympathetic nerve impulses. Important in memory and learning and is deficient in the brains of those with late-stage Alzheimer disease. May be involved in myasthenia gravis; nicotine binds to same receptors.

### N1 02 **Adenosine**

In general has an inhibitory effect in the central nervous system. Involved in regulating blood flow to various organs through vasodilation; believed to play a role in promoting sleep and suppressing arousal. Affects central nervous system and peripheral nervous system; constituent of ATP and ADP. May be involved with asthma; stimulatory effect of tea and coffee because inhibits adenosine.

### N1 03 **Anandamide**

Pain control; may be used by the brain as a central fine-tuner of electrical activity; inhibits movement; involved with mood; short-term memory; male fertility (high levels slow speed of sperm); acts as a chemical messenger between the embryo and uterus during implantation of the embryo in the uterine wall; may control coughing and various respiratory functions; may increase appetite. Also known as the bliss molecule ('ananda' is Sanskrit for bliss); also called the body's own cannabis (cannabis binds to the same receptors as anandamide); chocolate contains anandamide; may be involved in Crohn's disease, Parkinson's disease, drug addiction, schizophrenia, autism and Gilles de la Tourette's syndrome.

### N1 04 **L-Aspartate**

Also an amino acid. Stimulates NMDA receptors, the predominant molecular device for controlling synaptic plasticity and memory function; involved in conveying pain messages.

### N1 05 **Dopamine**

In parts of the brain that control subconscious movement of skeletal muscles; regulating muscle tone; increases the efficiency of the heartbeat and helps return the blood pressure to normal; involved in emotional responses, such as reward-seeking behaviour; most responsible for cognitive alertness. Decreased levels associated with Parkinson's disease; increased levels with schizophrenia; may be involved with ADD, autism, La Tourette's syndrome and depression. All drugs that create a dependency artificially increase the amount of dopamine in the reward circuits.

### N1 06 **Epinephrine / Adrenalin**

Helps body resist stress by increasing heart rate, constricting blood vessels, accelerating respiration, decreasing digestion, increasing efficiency of muscular contractions, increasing blood sugar, stimulating cellular metabolism.

### N1 07 **GABA / Gamma-Aminobutyrate Acid**

An amino acid. The chief inhibitory neurotransmitter in the central nervous system; plays the principal role in reducing neuronal excitability throughout the nervous system; blocks noradrenaline and dopamine. Deficiencies found in hypertension and seizures; a target for anti-anxiety drugs.

### N1 08 **Glutamic Acid/ Glutamate**

Also an amino acid. Can be manufactured by the body; precursor of proline, ornithine, arginine and polyamines; a stimulatory neurotransmitter; can be converted by the body into GABA; the most common neurotransmitter in the brain; always excitatory; nearly all excitatory neurons in the CNS and possibly half of the synapses in the brain communicate via glutamate; involved in visual adaptation to light and dark; involved in conveying pain messages. Associated with learning and memory. May be involved in Alzheimer's disease. Many epileptics have increased levels of glutamic acid; part of the acute reaction to withdrawal from drug addiction includes increased production of glutamate.

### **N1 09 Glycine**

Also an amino acid. Can be synthesized from other amino acids (serine and threonine); acts as an inhibitory neurotransmitter in the central nervous system, especially in the spinal cord, brainstem, and retina; assists in manufacture of DNA, glycerol, phospholipids, collagen, glutathione and cholesterol conjugates; essential for one of key liver detoxification pathways; stimulates secretion of glucagons. Implicated in Parkinson's disease; low levels often found in manic-depressives and epileptics; people with motor neurone disease may have impaired glycine metabolism.

### **N1 10 Histamine**

Involved in sleep-wake regulation, by increasing wakefulness and prevent sleep; also protects against the susceptibility to convulsion, drug sensitization, denervation super-sensitivity, ischemic lesions and stress; may controls the mechanisms by which memories and learning are forgotten; may be involved in some forms of alcoholism. Released during an allergic reaction and inflammation; narrows bronchi in lungs, increases permeability of blood vessels, lowers blood pressure, causes itching and stimulates production of acid in the stomach; secretion of digestive juices. May be implicated in some types of schizophrenia and multiple sclerosis.

### **N1 11 Nitric Oxide**

Serves as a neurotransmitter between nerve cells, part of its general role in redox signalling (helping cells protect themselves, detect damage and then either repair or replace damaged cells). Also of critical importance as a mediator of vasodilation in blood vessels, so playing a key role in renal control of extracellular fluid homeostasis, the regulation of blood flow and blood pressure, and in erection of the penis.

### **N1 12 Norepinephrine/ Noradrenaline**

Most responsible for vigilant concentration and underlies flight-fight response; helps body resist stress by increasing heart rate, constricting blood vessels, accelerating respiration, decreasing digestion, increasing efficiency of muscular contractions, increasing blood sugar, stimulating cellular metabolism.

### **N1 13 Serotonin / 5-Hydroxytryptamine /5-HT**

Primarily found in the gastrointestinal tract, platelets, and the central nervous system; concerned with conscious processes, involved in controlling states of consciousness and mood; sensory perception; induces sleep; temperature regulation; released at site of bleeding to constrict small blood vessels and control blood loss; involved in conveying pain messages; inhibits gastric secretion and stimulates smooth muscles in the intestinal wall; decreases carbohydrate cravings; provides a feeling of fullness; inhibits release of prolactin. Action in brain disrupted by some hallucinogenic drugs, particularly LSD; excess serotonin implicated in Raynaud's disease. Also found in insect venoms, plant spines and in many seeds and fruits.

# Nutrition 1 Test Kit

## 21 vials

*The energy patterns of a range of vitamins and essential fatty acids.*

### NT1 Vitamin A / Retinol

Found in: liver, eggs, milk & dairy products, fish liver oil, enriched margarine.

Functions: growth and repair of body tissues; bone and tooth formation; vision in dim light; keeps mucus membranes healthy; protection from some cancers.

Deficiency symptoms : reduced night vision; dry eyes; loss of vision due to gradual damage of cornea; reduced resistance to infection due to loss of integrity of skin and mucus membranes; follicular hyperkeratosis. Excess symptoms: headaches; drowsiness; skin changes; anorexia; weight loss; muscle pain; chronic liver disease; itchy and flakey skin; loss of body hair; brittle nails; increased risk of birth defects in pregnant women.

### NT2 VitaminB1/ Thiamin

Found in: wheat germ, yeast, liver, whole grains, nuts, oranges, fish, poultry, beans, pork.

Functions: carbohydrate metabolism; appetite maintenance; nerve function; growth and muscle tone.

Deficiency symptoms: tiredness; depression; irritability; inability to concentrate; poor memory; muscle weakness; gastrointestinal disturbances; numbness and tingling in hands and feet; reduced pain tolerance; disturbed sleep; poor growth in children

### NT3 Vitamin B2 / Riboflavin

Found in: fortified breakfast cereals, meat, eggs, green leafy vegetables, offal.

Functions: fat, carbohydrate and protein metabolism; formation of antibodies and red blood cells

Deficiency symptoms: sore tongue and lips; cracks in skin around nose and mouth; eye irritation; burning feet; red and greasy skin but also dryness and flaking; scrotal and vulval dermatitis

### NT4 Vitamin B3 /Niacin/ / Nicotinic Acid /Nicotinamide

Found in: meat, poultry, fish, liver, milk products, peanuts, almonds, potatoes, yeast extract.

Functions: fat, carbohydrate and protein metabolism; health of skin, tongue and digestive system; blood circulation.

Deficiency symptoms: irritability; headaches; poor memory; emotional instability; redness, scaling & pigmentation of skin in light-exposed areas; sore & fissured tongue; diarrhoea

Excess symptoms: flushing; peptic ulcers; liver dysfunction; gout; arrhythmia; hyperglycaemia.

### NT5 Vitamin B5 / Pantothenic Acid

Found in: meat, whole grains, legumes, yeast.

Functions: converts nutrients into energy; formation of some fats; vitamin utilisation.

Deficiency symptoms: tiredness; headaches; weakness; emotional swings; muscle cramps; nausea.

### NT6 Vitamin B6 / Pyridoxine

Found in: fish, poultry, lean meat, nuts, pulses, whole grain cereals.

Functions: fat, carbohydrate and protein metabolism; formation of antibodies; maintains sodium/ potassium balance.

Deficiency symptoms: exacerbates anaemia; irritability; nervousness; insomnia; seborrhoeic dermatitis on face; acne-like rash on forehead; red and greasy skin but also dryness and flaking; sore tongue; prominent taste buds.

Excess symptoms: impairment of sensory nerve function; diminished tendon reflexes; numbness and loss of sensations in hands and feet; difficulty in walking.

### NT7 Vitamin B12 / Cyanoco-balamin

Found in: offal, eggs, milk, oily fish, cheese.

Functions: fat, carbohydrate and protein metabolism; maintains health of nervous system; blood cell formation; folate synthesis.

Deficiency symptoms: mental confusion; tiredness; pale skin; recurrent mouth ulcers.

### NT8 Biotin / Vitamin H

Found in: yeast, offal, eggs, milk, cheese

Functions: fat, carbohydrate and protein metabolism; helps utilise B vitamins.

Deficiency symptoms: Scaly dermatitis; tiredness; weakness; severe cradle cap in infants.

### **NT9 Choline**

Found in: widely available; can be synthesised from glycine.

Functions: part of formation of acetyl-choline; emulsifies fats.

### **NT10 Folic Acid**

Found in: green leafy vegetables, offal, melons, pumpkins, beans, carrots, egg yolk, apricots, avocado.

Functions: red blood cell formation; protein metabolism; growth and cell division.

Deficiency symptoms: megaloblastic anaemia; neural tube defects where mother's intake not adequate; poor growth in children; cracks at corners of mouth; painful sore tongue; mouth ulcers; depression.

Excess symptoms: insomnia, irritability.

### **NT11 Vitamin C / Ascorbic Acid**

Found in: citrus fruit, nectarines, melons, vegetables, tomatoes, potatoes.

Functions: helps heal wounds; strengthens blood vessels; collagen maintenance; resistance to infection; required for production of adrenal hormones; helps detoxification and excretion of a wide range of toxic chemicals.

Deficiency symptoms: scurvy; poor wound healing; lowered resistance to infection; bleeding gums; fragile capillaries; damage to bone & connective tissue; dry and scaly skin; dandruff.

Excess symptoms: kidney stones because of increased excretion of water and oxalate; impairment of white cell function; decreased B12 and increased iron absorption.

### **NT12 Vitamin D2 / Ergocalciferol**

Found in: Often used in supplements; made in body when skin exposed to sunlight.

Functions: calcium and phosphorus metabolism (bone formation); heart action; nervous system maintenance.

Deficiency symptoms: inadequate calcification of bones; skeletal deformity, migraine, hearing loss.

Excess symptoms: hypercalcaemia; renal stones; hypertension; excessive thirst; diarrhoea; nausea; weakness.

### **NT13 Vitamin D3 / Cholecalciferol**

Found in: oily fish, egg yolks, offal, fortified margarine; made in body when skin exposed to sunlight.

Functions: calcium and phosphorus metabolism (bone formation); heart action; nervous system maintenance.

Deficiency symptoms: inadequate calcification of bones; skeletal deformity, psoriasis, migraine, hearing loss.

Excess symptoms: hypercalcaemia; renal stones; hypertension; excessive thirst; diarrhoea; nausea; weakness.

### **NT14 Vitamin E / Tocopherol**

Found in: vegetable oils, green vegetables, wheat germ, offal, eggs.

Functions: protects membrane and red blood cells; inhibits coagulation of blood; protects fat soluble vitamins; cellular respiration; protects cells from free radical damage.

Deficiency symptoms: increased risk of coronary heart disease and some cancers; acceleration of some degenerative diseases (e.g. cataracts, rheumatoid arthritis);

acceleration of ageing; menopausal hot flushes; reducing scarring.

Excess symptoms: raised blood pressure; minor gastrointestinal upsets.

### **NT15 Vitamin K1 / Phylloquinone**

Found in: green leafy vegetables, fruits, cereals; also synthesised in gut.

Functions: important in formation of blood clotting agents, involved in energy metabolism, protein formation in bone tissue.

Deficiency symptoms: increased blood clotting time, haemorrhagic disease in new born which can be fatal.

Excess symptoms: prolonged clotting time.

### **NT16 Vitamin K2 / Menaquinone**

Found in: dairy products, meat; also synthesised in gut.

Functions: important in formation of blood clotting agents, involved in energy metabolism, protein formation in bone tissue.

Deficiency symptoms: increased blood clotting time, haemorrhagic disease in new born which can be fatal.

Excess symptoms: prolonged clotting time.

### **NT17 Vitamin K3 / Menadione**

Found in: dairy products, meat; also synthesised in gut.

Functions: important in formation of blood clotting agents, involved in energy metabolism, protein formation in bone tissue.

Deficiency symptoms: increased blood clotting time, haemorrhagic disease in new born which can be fatal.

Excess symptoms: prolonged clotting time.



**NT18 Arachidonic Acid**

Can be formed from linoleic acid.

Omega 6 series polyunsaturated fatty acid, precursor of prostoglandins and leukotrienes.

Deficiency symptoms: inflammation, blood vessel constriction, blood pressure, arthritis, pain, blood clotting, allergies, asthma, eczema, psoriasis, dry skin, migraine, fertility, PMT (especially breast tenderness), dry eye syndrome, behavioural problems.

**NT19 Eicosapentaenoic Acid**

Found in: fish oils, flax seed oil, pumpkin seeds.

Omega 3 series polyunsaturated fatty acid.

Deficiency symptoms: inflammation, blood clotting, rheumatoid arthritis, behavioural problems, muscle weakness, visual impairment.

**NT20 Linoleic Acid**

Omega 6 series polyunsaturated fatty acid, precursor of prostoglandins and leukotrienes.

Deficiency symptoms: inflammation, blood vessel constriction, blood pressure, arthritis, pain, blood clotting, allergies, asthma, eczema, psoriasis, dry skin, migraine, fertility, PMT (especially breast tenderness), dry eye syndrome, behavioural problems.

**NT21 Linolenic Acid**

Omega 6 series polyunsaturated fatty acid, precursor of prostoglandins and leukotrienes.

Deficiency symptoms: inflammation, blood vessel constriction, blood pressure, arthritis, pain, blood clotting, allergies, asthma, eczema, psoriasis, dry skin, migraine, fertility, PMT (especially breast tenderness), dry eye syndrome, behavioural problems.

## **Nutrition 2 Test Kit** **25 vials**

*The energy patterns of substances commonly used as supplements, including DHA, SOD, quercetin, creatine, etc. The vials in this kit contain the pure energy pattern of the substances without all the fillers, tableting agents and capsules that are there if you test supplements.*

**NT22 5-Hydroxytryptophan / 5 HTP / Oxitriptan**

Involved in the synthesis of the neurotransmitters serotonin and melatonin from tryptophan.

**NT23 Alpha Lipoic Acid / ALA Found in every cell of the body.**

It is an antioxidant that can work in both water and fat, and is used by the body to neutralise free radicals.

May help metabolic syndrome and insulin resistance, enabling insulin to work more effectively in the body.

**NT24 Beta Carotene / Provitamin A / 160a**

A red-orange pigment abundant in plants and fruits. Can be converted in the body into Vitamin A. Used as a natural food colouring (usually extracted using hexane).

**NT25 Betaine Hydrochloride**

Supports digestive system when stomach acid is low.

**NT26 Bromelain**

Extracted from pineapples. Aids protein digestion. Also used to reduce inflammation associated with infection and injuries. Can be used in cooking as a meat tenderiser.

**NT27 Capsules, Gelatin**

Gelatin is derived by boiling animal bones, hooves, tendons, etc. Glycerine may be added to soften the capsule shell.

**NT28 Capsules, Vegetarian**

Made from hydroxypropyl methylcellulose.

**NT29 Coenzyme Q10 / Ubiquinone / Ubidecarenone**

A vitamin-like substance that is present in all human cells and is responsible in part for the production of the body's own energy. Body's production declines with age, so may lead to increased tiredness. Shortage associated with gum disease and heart problems. May have important role in Alzheimer's, migraine and Parkinson disease. People with heart problems and the obese may have low levels.

**NT30 Conjugated Linoleic Acid /CLA**

Found mainly in the meat and dairy products. May have anti-cancer properties. May have a positive effect on weight management through a reduction in total body fat and an increase in lean body mass.

**NT31 Creatine**

A component of skeletal muscle. Produced in the human body from amino acids primarily in the kidney and liver. Used by sports people to gain muscle mass.

**NT32 Curcumin / E100**

Responsible for the yellow colour and beneficial effect of turmeric. May be beneficial for irritable bowel syndrome, ulcerative colitis and arthritis. It has been shown to be particularly useful if you suffer from shoulder, knee and elbow pain and stiffness.

**NT33 Docosahexaenoic Acid / DHA**

An omega-3 fatty acid. From fish oils and commercially manufactured from microalgae. May reduce the risk of heart disease. Below-normal levels associated with Alzheimer's disease.

**NT34 Fructooligosaccharides / FOS / Oligofructose / Oligofructan**

Extracted from fruits and vegetable. Helps keep the stools soft and easy to pass and stimulates the growth of friendly bacteria through its prebiotic effect. Promotes calcium absorption in the gut.

**NT35 Glucosamine Hydrochloride**

An essential role in the repair of cartilage in the joints. No major food sources except for crabs, oysters and the shells of prawns. This form of glucosamine is from corn/maize vegetables that undergo a special fermentation process.

**NT36 Inulin**

Belongs to a class of fibres known as fructans. Can be used to replace sugar, fat, and flour particularly in reduced calorie products. Also sold as a supplement. Increases calcium absorption and possibly magnesium absorption, while promoting the growth of intestinal bacteria.

**NT37 Lutein / Xanthophyll**

Found in green leafy vegetables such as spinach and kale. Also found in egg yolks and animal fats. High levels in the retina. Used to improve eye health. Can cause bronzing of the skin.

**NT38 Lycopene / E160d**

Phytochemical found in tomatoes and other red fruits and vegetables. Used as a natural food colouring (E160d). May protect against cancer and cardiovascular disease.

**NT39 Magnesium Silicate / Talc / Florisil**

Used as a coating on tablets. Also used in paper making, plastic, paint and coatings, rubber, food, electric cable, pharmaceuticals, cosmetics, ceramics, etc.

**NT40 Methylsulphonylmethane / MSM / DMSO2 / Methyl Sulfone / Dimethyl Sulfone**

A key component of cartilage and plays an important part in joint health.

**NT41 Papain / Papaya Proteinase I**

A digestive enzyme from papaya. Used to aid digestion.

**NT42 Psyllium Husks / Plantago Ovtá**

A source of fibre, so bulk up stools and help with constipation.

**NT43 Quercetin**

Inhibits the production and release of histamine, which is involved in allergic and inflammatory reactions.

**NT44 Resveratrol**

Found naturally in grapes, red wine, purple grape juice, peanuts, and some berries. May be beneficial for the heart and have anti-cancer properties.

**NT45 Superoxide Dismutase / SOD**

An enzyme that promotes the rejuvenation and repair of cells, while reducing the damages caused by free radicals.

**NT46 Vitamin B17 / Laetrile / Amygdalin**

Originally isolated from bitter almond. Has been used as a naturopathic cancer treatment, but is greeted with scepticism by mainstream scientific/medical community.

# Parasite 1 Test Kit

## 31 vials

*The energy patterns of tapeworms, pinworms, roundworms and liver flukes.*

Parasite: "any organism living in or on any other living creature and deriving advantage from doing so, while causing disadvantage to the host" - BMA Complete Family Health Encyclopaedia

Parasites are commonly acquired by eating contaminated meat, swallowing eggs on food, contaminating fingers with faecal material or through contact with infected water.

Parasites are divided into the following categories:

- |  |                      |
|--|----------------------|
| <b>1. flatworms (also called platyhelminths)</b> | <b>2. roundworms</b> |
| a) tapeworms (also called cestodes)              | a) threadworms       |
| b) flukes (also called trematodes)               | b) pinworms          |
| Life stages                                      | c) hookworms         |

Roundworms: egg to larva to adult

Tapeworms: egg to larva to encased by body in a cyst to adult

Fluke: egg to miracidia to redia to cercaria to metacercaria to adult

Scolex = part of tapeworm attached by suckers and hooks to gut wall of host; sometimes called head

Proglottides = segment-like units of the tapeworm body which, when mature, leave the gut of the primary host in the faeces; they are budded off from the scolex

**The descriptions below are Latin name, common name, symptoms & comments in that order**

### PA1 **Ancylostoma Caninum**

Hookworm

Damage to intestinal walls, anemia, itchy skin, dizziness, pneumonitis, anorexia.

Tropical parasite; usual host is dogs.

### PA2 **Ancylostoma, Egg**

Hookworm

Tropical parasite; picked up from working barefoot amongst faeces or eating contaminated food.

### PA3 **Ancylostoma, Female**

Hookworm

Tropical parasite; picked up from working barefoot amongst faeces or eating contaminated food.

### PA4 **Ascaris, Female**

Human roundworm

Sometimes asymptomatic; urticaria; mild to acute colicky pain with distension; reduced appetite; larvae in lungs can provoke pneumonia the most common worm infection.

World wide, particularly in developing countries; commonly found in dogs and cats.

### PA5 **Ascaris, Male**

Human roundworm

Commonly found in cats and dogs sometimes asymptomatic; urticaria; mild to acute colicky pain with distension; reduced appetite; larvae in lungs can provoke pneumonia.

The most common worm infection world wide, particularly in developing countries.

### PA6 **Cimex**

Bed bug

Itchy, painful bites which can lead to bacterial infection.

Lives in plaster, walls, furniture, bed frames.

### PA7 **Clonorchis Sinensis**

Human oriental liver fluke.

Chronic liver disease; death if left untreated.

Widespread in China, Japan, Korea, Taiwan and Vietnam; via domestic dogs and cats.

### PA8 **Culex Imago, Female**

Gnat/ mosquito

### PA9 **Dipylidium, Scolex Mature & Gravid Proglottides**

Tapeworm

Grows in segments; the end can be uterus packed with eggs.

**PA10 Echinococcus Granulosus**

Tapeworm

Affects liver, lungs, brain and bones.

From sheep and cattle.

**PA11 Enterobius Vermicularis**

Threadworm

Often cause itching of the anus; may provoke appendicitis.

The most common worm infection in U.K. ; lives in upper part of large intestine; children particularly affected.

**PA12 Fasciola**

Liver fluke

**PA13 Fasciola, Cercaria**

Liver fluke

Mainly lives in liver of sheep.

**PA14 Fasciola, Egg**

Liver fluke

Mainly in liver of sheep.

**PA15 Fasiola, Redia**

Liver fluke

**PA16 Necator Americanus, Eggs**

Hookworm

Symptoms can include coughing and wheezing, but may be asymptomatic.

Common infection in the Americas, sub-Saharan Africa, South Asia and the Pacific.

**PA17 Onchocerca Volvulus**

Filarial worm

Asymptomatic until worm dies when causes inflammation and itching.

Predominantly Africa, but also South America and Yemen.

**PA18 Paragonimus Westermani, Eggs**

Lung fluke

Coughing, chest pains, fever, night sweats.

Most important lung fluke affecting humans, widespread in the Far East and SE Asia.

**PA19 Pediculus Humanus Capitis**

Lice

Itching can spread other diseases such as typhus and trench fever.

**PA20 Schistosoma Mansoni, Adult Female**

Blood fluke

Common tropical fluke, responsible for bilharzia.

Found in Africa, parts of S. America, the Caribbean and Arabia.

**PA21 Schistosoma Mansoni, Cercariae**

Blood fluke

Common tropical fluke, responsible for bilharzia.

Found in Africa, parts of S. America, the Caribbean and Arabia.

**PA22 Schistosoma Mansoni, Egg**

Blood fluke

Common tropical fluke, responsible for bilharzia.

Found in Africa, parts of S. America, the Caribbean and Arabia.

**PA23 Schistosoma Mansoni, Miracidia**

Blood fluke

Common tropical fluke, responsible for bilharzia.

Found in Africa, parts of S. America, the Caribbean and Arabia

**PA24 Taenia, Scolex**

Tapeworm

Hunger, weakness, weight loss.

From eating uncooked meat; common in tropical countries.

**PA25 Taenia, Scolex Immature, Mature & Gravid Proglottids**

Tapeworm

Hunger, weakness, weight loss.

From eating uncooked meat; common in tropical countries.

**PA26 Trichinella Spiralis, Encysted Larvae**

Intestinal nematode/ pork-worm

Abdominal pain and diarrhoea followed by muscle and joint pain and fever.

Found in Europe, sub-Saharan Africa and the Arctic, main sources are undercooked pork and wild meat

**PA27 Trichinella Spiralis, Female**

Intestinal nematode/ pork-worm

Abdominal pain and diarrhoea followed by muscle and joint pain and fever.

Found in Europe, sub-Saharan Africa and the Arctic, main sources are undercooked pork and wild meat.

**PA28 Trichinella Spiralis, Male**

Intestinal nematode/ pork-worm

Abdominal pain and diarrhoea followed by muscle and joint pain and fever.

Found in Europe, sub-Saharan Africa and the Arctic, main sources are undercooked pork and wild meat.

**PA29 Trichuris Trichiura**

Whipworm

Asymptomatic but can cause dysentery-like illness.

World-wide distribution.

**PA30 Trichuris Trichiura, Egg**

Whipworm

Asymptomatic but can cause dysentery-like illness.

World-wide distribution

**PA31 Xenopsylla Cheopsis**

Rat flea

Transmits plague, typhus and two tape worms.

## **Parasite 2 Test Kit**

### **35 vials**

*The energy patterns of various forms of hookworms, tapeworms, roundworms, blood flukes, liver flukes, lung flukes, blastocystis hominis, endomilax nana, etc. It does not duplicate parasite test kit 1, but contains some completely different parasites and some of the same parasites but at different life stages.*

**PA32 Amblyomma Americanum**

Lone star tick

A major carrier of Rocky Mountain spotted fever and Lyme disease.

**PA33 Ancylostoma Braziliense**

Human hookworm

Severe skin itching.

**PA34 Ancylostoma Duodenale, Male**

Human hookworm

Itching, gastrointestinal bleeding, iron deficiency.

Common in north Africa, northern India, northern parts of the Far East and the Andean region of South America.

**PA35 Ascaris Lumbricoides, Eggs**

Human roundworm

Sometimes asymptomatic; urticaria; mild to acute colicky pain with distension; reduced appetite; larvae in lungs can provoke pneumonia.

Commonly found in cats and dogs.

**PA36 Blastocystis Hominis**

Watery or loose stools, diarrhea, abdominal pain, anal itching, weight loss, and excess gas.

Common microscopic parasitic organism found throughout the world.

**PA37 Chilomastix Mesnili, Cysts**

An amoeba found in intestine.

Viewed as harmless by the medical profession.

**PA38 Chilomastix Mesnili, Trophozoites**

An amoeba found in intestine.

Viewed as harmless by the medical profession.

**PA39 Clonorchis Sinensis, Eggs**

Human oriental liver fluke

Chronic liver disease; death if left untreated.

Widespread in China, Japan, Korea, Taiwan and Vietnam; via domestic dogs and cats.

**PA40 Ctenocephalides Felis, Adult**

Cat flea

**PA41 Dermacentor Andersoni, Nymph**

Tick which carries Rocky Mountain fever

**PA42 Dermacentor Variabilis, Male**

American dog tick

Transmits spotted fever; carries Lyme disease bacteria, but unclear if can transmit it to humans.

**PA43 Dientamoeba Fragilis**

Found in large intestine; abdominal pain, gas and mild diarrhoea.

**PA44 Diphyllbothrium, Eggs**

Broadfish tapeworm

Found in small intestine from eating raw or undercooked fish.

Prevalent in Scandinavia and around American Great Lakes.

**PA45 Dirofilaria Immitis**

Dog heartworm

In dogs & cats, rarely in humans.

**PA46 Endolimax Nana, Cyst**

An amoeba found in intestine.

Viewed as harmless by the medical profession.

**PA47 Enterobius Vermicularis, Eggs**

Threadworm

Often cause itching of the anus; may provoke appendicitis; lives in upper part of large intestine.

The most common worm infection in U.K. ; children particularly affected.

**PA48 Fasciolopsis Buski, Eggs**

Chronic infections may lead to inflammation, ulceration, hemorrhage, and abscesses of the small intestine.

Found in S E Asia.

**PA49 Hymenolepis Nana / Vampirolepis Nana, Eggs**

Dwarf tapeworm

Often no symptoms; headaches, dizziness, anorexia, abdominal pain, diarrhea.

A particular problem in humans in areas of high population density and close contact, and where sanitary conditions are poor; most common tapeworm worldwide.

**PA50 Isospora, Oocysts**

Infection causes acute, non bloody diarrhea with crampy abdominal pain, which can last for weeks and result in malabsorption and weight loss.

**PA51 Necator Americanus, Adult**

New world hookworm

Symptoms can include coughing and wheezing, but may be asymptomatic.

Common infection in the Americas, sub-Saharan Africa, South Asia and the Pacific.

**PA52 Necator Americanus, Infective Larvae**

New world hookworm

Symptoms can include coughing and wheezing, but may be asymptomatic.

Common infection in the Americas, sub-Saharan Africa, South Asia and the Pacific



**PA53 Paragonimus Westermanii, Adult**

Oriental lung fluke

Coughing, chest pains, fever, night sweats.

Most important lung fluke affecting humans, widespread in the Far East and SE Asia.

**PA54 Paragonimus Westermanii, Cercaria**

Oriental lung fluke

Coughing, chest pains, fever, night sweats.

Most important lung fluke affecting humans, widespread in the Far East and SE Asia.

**PA55 Paragonimus Westermanii, Metacercaria**

Oriental lung fluke

Coughing, chest pains, fever, night sweats.

Most important lung fluke affecting humans, widespread in the Far East and SE Asia.

**PA56 Paragonimus Westermanii, Redia**

Oriental lung fluke

Coughing, chest pains, fever, night sweats.

Most important lung fluke affecting humans, widespread in the Far East and SE Asia.

**PA57 Pulex Irritans, Adult**

Human flea

Common flea

**PA58 Sarcoptes Scabiei**

Itch mite, mange mite

Scabies.

**PA59 Schistosoma Haematobium, Eggs**

Blood fluke

Urinary tract infection, bilharzia.

Found in Africa and Middle East.

**PA60 Schistosoma Haematobium, Female**

Blood fluke

Urinary tract infection, bilharzia.

Found in Africa and Middle East.

**PA61 Schistosoma Japonicum, Eggs**

Blood fluke

Fever, bloody diarrhoea, bilharzia.

Found in Far East, but eradicated in Japan.

**PA62 Schistosoma Japonicum, Male**

Blood fluke

Fever, bloody diarrhoea, bilharzia.

Found in Far East, but eradicated in Japan.

**PA63 Schistosoma Mansoni, Male**

Blood fluke

Bilharzia.

Found in Africa, parts of S. America, the Caribbean and Arabia.

**PA64 Strongyloides Parasitic, Female**

Often asymptomatic, but heavy infestation leads to bloody diarrhoea, anaemia and abdominal pain.

Tropical and subtropical countries, particularly South East Asia, Brazil and Columbia.

**PA65 Strongyloides, Larvae**

Often asymptomatic, but heavy infestation leads to bloody diarrhoea, anaemia and abdominal pain.

Tropical and subtropical countries, particularly South East Asia, Brazil and Columbia.

**PA66 Toxocara, Eggs**

Cat and dog roundworm

Permanent partial loss of vision; heavier, or repeated can lead to fever, coughing, asthma, or pneumonia.

Spread from dogs and cats.

# Parasite 3 Test Kit

## 28 vials

*More parasites, including different life stages of parasites in other kits.*

### **PA3 67 Ancylostoma Duodenale / Old World Hookworm, Eggs**

Lives in the small intestine of hosts such as humans, cats and dogs; abundant throughout the world, including in the following areas: southern Europe, north Africa, India, China, southeast Asia, some areas in the United States, the Caribbean, and South America.

### **PA3 68 Brugia Malayi / Brugian Filariasis, Microfilaria**

A nematode (roundworm), one of the three causative agents of lymphatic filariasis (elephantiasis) in humans; restricted to South and South East Asia.

### **PA3 69 Capillaria Hepatica / Hepaticola Hepatica / Calodium Hepaticum, Eggs**

Causes hepatic capillariasis; found in rats, a wide variety of other wild and domestic mammals, and occasionally humans; has been found in temperate and tropical zones on every continent.

### **PA3 70 Dicrocoelium Dendriticum / Sheep Liver Fluke**

Usually infects the bile duct; in heavier infections, bile ducts and the biliary epithelium may become enlarged in addition to the generation of fibrous tissue surrounding the ducts, and as a result, causing an enlarged liver (hepatomegaly) or inflammation of the liver (cirrhosis); worldwide distribution particularly in grazing land near forest areas (good for molluscs) and dry pastures with little other biodiversity (good for the ants) both increased parasite prevalence (molluscs and ants are hosts). Humans can become hosts after accidentally ingesting infected ants.

### **PA3 71 Diphyllbothrium Latum, Immature Proglottid**

Tapeworm causing Diphyllbothriasis in humans through consumption of raw or undercooked fish; native to Scandinavia, western Russia, and the Baltics, though it is now also present in North America, especially the Pacific Northwest.

### **PA3 72 Diphyllbothrium Latum, Mature Proglottid**

Tapeworm causing Diphyllbothriasis in humans through consumption of raw or undercooked fish; native to Scandinavia, western Russia, and the Baltics, though it is now also present in North America, especially the Pacific Northwest.

### **PA3 73 Dipylidium Caninum, Eggs**

Infects organisms afflicted with fleas and canine chewing lice, including dogs, cats, and sometimes human pet-owners, especially children; most infections are asymptomatic, but sometimes mild diarrhoea, abdominal colic, anorexia, restlessness, constipation, rectal itching and pain due to emerging proglottids through the anal cavity.

### **PA3 74 Dipylidium Caninum, Immature Proglottid**

Infects organisms afflicted with fleas and canine chewing lice, including dogs, cats, and sometimes human pet-owners, especially children; most infections are asymptomatic, but sometimes mild diarrhoea, abdominal colic, anorexia, restlessness, constipation, rectal itching and pain due to emerging proglottids through the anal cavity.

### **PA3 75 Dipylidium Caninum, Mature Proglottid**

Infects organisms afflicted with fleas and canine chewing lice, including dogs, cats, and sometimes human pet-owners, especially children; most infections are asymptomatic, but sometimes mild diarrhoea, abdominal colic, anorexia, restlessness, constipation, rectal itching and pain due to emerging proglottids through the anus.

### **PA3 76 Dirofilaria Immitis, Microfilariae**

A parasitic roundworm that is spread from host to host through the bites of mosquitoes; definitive host is the dog, but it can also infect cats, wolves, coyotes, foxes and other animals and under very rare circumstances, humans. (Microfilariae are live young that circulate in the bloodstream for as long as two years, waiting for the next stage in their life cycles in the gut of a bloodsucking mosquito.)

### **PA3 77 Echinococcus Granulosus / Hydatid Worm / Hyper Tapeworm / Dog Tapeworm, Cyst**

First document in Alaska but is distributed world-wide; especially prevalent in parts of Eurasia, north and east Africa, Australia, and South America. Most prevalent in sheep farming communities.

### **PA3 78 Fasciola Hepatica / Common Liver Fluke, Eggs**

Infects the livers of various mammals, including humans; human infections occur in parts of Europe, northern Iran, northern Africa, Cuba, South America, especially the Altiplano regions of the Peruvian and Bolivian Andes; also an emerging problem in Vietnam and Cambodia.

### **PA3 79 Hymenolepis Nana / Vampirolepis Nana / Dwarf Tapeworm**

One of the most common intestinal worms infecting humans, especially children; common in temperate zones. Most people who are infected do not have any symptoms. Those who have symptoms may experience nausea, weakness, loss of appetite, diarrhea, and abdominal pain. Young children, especially those with a heavy infec-

tion, may develop a headache, itchy bottom, or have difficulty sleeping. Sometimes infection is misdiagnosed as a pinworm infection.

**PA3 80 Loa Loa / Eye Worm**

Found in Africa and India; travels from the entry site through subcutaneous tissues, causing inflammation in the skin wherever they travel.

**PA3 81 Macracanthorhynchus Hirudinaceus, Eggs**

Lives in the intestines of pigs, and very occasionally in humans or dogs. It causes enteritis, gastritis or peritonitis.

**PA3 82 Macracanthorhynchus Hirudinaceus, Eggs**

Found in Africa and tropical Americas, spread by biting midges or blackflies; usually asymptomatic.

**PA3 83 Schistosoma Japonicum, Cercaria**

Found in China, but now eradicated in Japan; often asymptomatic, but may experience fever, cough, abdominal pain, diarrhoea, hepatosplenomegaly, and eosinophilia. Occasionally central nervous system lesions occur: cerebral granulomatous disease may be caused by ectopic *S. japonicum* eggs in the brain.

**PA3 84 Schistosoma Japonicum, Female**

Found in China, but now eradicated in Japan; often asymptomatic, but may experience fever, cough, abdominal pain, diarrhoea, hepatosplenomegaly, and eosinophilia.

**PA3 85 Schistosoma Japonicum, Miracidium**

Found in China, but now eradicated in Japan; often asymptomatic, but may experience fever, cough, abdominal pain, diarrhoea, hepatosplenomegaly, and eosinophilia.

**PA3 86 Schistosoma Japonicum, Sporocyst**

Found in China, but now eradicated in Japan; often asymptomatic, but may experience fever, cough, abdominal pain, diarrhoea, hepatosplenomegaly, and eosinophilia.

**PA3 87 Schistosoma Mansoni, Male**

Causes intestinal schistosomiasis; present in many countries, predominantly in South America and the Caribbean, Africa including Madagascar, and the Middle East.

**PA3 88 Spirometra Mansoni, Egg**

Occurs worldwide in distribution, although most human cases of sparganosis are recorded from southeast Asian countries. Sparganosis is endemic in animals throughout North America, although human cases from this area are rare.

**PA3 89 Spirometra Mansoni, Immature Proglottid**

Occurs worldwide in distribution, although most human cases of sparganosis are recorded from southeast Asian countries. Sparganosis is endemic in animals throughout North America, although human cases from this area are rare.

**PA3 90 Spirometra Mansoni, Mature Proglottid**

Occurs worldwide in distribution, although most human cases of sparganosis are recorded from southeast Asian countries. Sparganosis is endemic in animals throughout North America, although human cases from this area are rare.

**PA3 91 Taenia Saginata / Beef Tapeworm, Immature Proglottid**

Cattle are the intermediate hosts, where larval development occurs, while humans are definitive hosts harbouring the adult worms; found globally and most prevalent where cattle are raised and beef is consumed. It is relatively common in Africa, some parts of Eastern Europe, Southeast Asia, South Asia, and Latin America.

**PA3 92 Taenia Solium / Pork Tapeworm, Eggs**

Found throughout the world, and is most prevalent in countries where pork is eaten; usually asymptomatic, but in severe cases leads to intestinal irritation, anaemia, and indigestion.

**PA3 93 Toxocara Canis / Dog Roundworm**

Humans can be infected just by stroking an infected dog's fur and accidentally ingesting infective eggs that may be present on the dog's fur; results in hepatomegaly, myocarditis, respiratory failure and vision problems.

**PA3 94 Tunga Penetrans / Chigoe Flea / Jigger**

Native to Central and South America, but now also found sub-Saharan Africa; breeding females burrow into exposed skin on the feet and remain there for two weeks while developing eggs, during which time they swell dramatically, sometimes causing intense irritation; if the flea is left within the skin, dangerous complications can occur including secondary infections, loss of nails, and toe deformation.

# Pathology & Histology Test Kits

There are some omissions from these test kits. This is usually because a suitable sample was not available from which to make the test vials.

These kits are not intended for diagnosis of medical conditions.

Testing may indicate a vial for various reasons:

1. A diseased tissue may be indicated, even though the disease is not present, because the test kits do not contain a suitable example of a healthy tissue
2. A vial may be indicated, not because it is wanted in its entirety, but because it contains a particular cell or cells, e.g. there are various types of epithelium (the lining of organs etc), so testing may indicate a particular organ, not because that organ is in any way defective, but because the sample contains a particular type of epithelium tissue
3. The exact match is not available, so the energy system is choosing the nearest match
4. A chronic disease vial may be indicated, not because the person has that disease but because they have the miasm / inherited taint represented by the chronic disease, e.g. the tubercular and syphilitic miasms are well known among homeopaths; these do not indicate the presence of the disease, but indicate a chronic tendency to manifest particular symptoms: the person with a tubercular miasm is always nervous and tired; the person with the syphilitic miasm tends to be sulky, depressed and stupid, with problems with teeth and bones, etc. (Consult homeopathic texts for more information on this. A Study Course In Homeopathy by Phyllis Speight offers an excellent introduction to this fascinating topic.)

## PH 1: Respiratory System Test Kit 25 vials

*The energy patterns of various healthy and diseased tissues, e.g. lung, trachea, pneumonia, lung oedema, TB, emphysema and various cancers.*

### PH101 **Bronchitis, Chronic**

Inflammation of one or more bronchi, usually secondary to infection.

### PH102 **Broncho-Pneumonia / Bronchial Pneumonia / Bronchoalveolitis / Bronchopneumonitis / Lobular Pneumonia**

Inflammation of the lungs which usually begins in the terminal bronchioles.

### PH103 **Carcinoma, Bronchoalveolar**

Malignant tumour of the bronchioles and alveoli in the lungs.

### PH104 **Diphtheria, Larynx**

The voice box showing changes brought about by diphtheria (acute contagious bacterial infection marked by the formation of a false membrane in the throat and other air passages causing difficulty in breathing).

### PH105 **Emphysema**

A lung condition featuring an abnormal accumulation of air in the lung's many tiny air sacs (alveoli), leading to abnormally large air spaces, lack of lung elasticity and scarring.

### PH106 **Giant Cell Carcinoma**

A variant of large cell carcinoma that is particularly aggressive.

### PH107 **Influenza, Lung**

An acute highly contagious virus disease that is caused by various strains of orthomyxoviruses; symptoms include fever, prostration, severe aches and pains, and progressive inflammation of the respiratory mucous membrane.

### PH108 **Large Cell Carcinoma, Lung**

Cancer originating in the peripheral part of the lung; the cells are large and look abnormal under a microscope.

**PH109 Lung**

Main organ of respiration, lying either side of heart.

**PH110 Lung Cancer, Secondary, Unknown Primary**

Secondary lung cancer as a result of cancer metastasising from an unknown site.

**PH111 Lung, Heart Failure**

Congestion of the blood vessels in the lungs due to some defect in the pumping action of the heart.

**PH112 Oedema, Lung**

Fluid accumulation in the lungs.

**PH113 Pleural Endothelioma, Malignant**

A malignant tumour which is formed from tissues of the serous membranes covering the lungs.

**PH114 Pleurisy, Acute**

Inflammation of the pleura (protective membrane of lung).

**PH115 Pneumonia**

An infection that occurs when fluid and cells collect in the lung.

**PH116 Pulmonary Bland Infarct, New**

A new infarct (an area of tissue death due to a local lack of oxygen), without any sign of infection.

**PH117 Pulmonary Hypertension, Lung**

Lung tissue showing evidence of abnormally elevated blood pressure within the pulmonary circuit.

**PH118 Small Cell Carcinoma / Bronchogenic Cancer / Lung Cancer / Oat Cell Cancer**

A fast-growing, malignant tumor of the lungs.

**PH119 Smoker's Lung**

Lung showing changes brought about by smoking cigarettes.

**PH120 Squamous Cell Carcinoma**

This cancer forms in cells lining the airways; most common lung cancer in men.

**PH121 Streptococci In Lung**

Lung tissue showing evidence of infection with strep bacteria.

**PH122 Trachea**

Airway that leads from the larynx to the lungs.

**PH123 Tuberculosis, Lung**

Chronic disease that is caused by the tubercle bacillus and by mycobacterium bovis.

**PH124 Tuberculosis, With Bacteria, Pulmonary Cavity**

Tuberculosis evident in the cavity in which the lungs are situated.

**PH125 Venous Congestion, Chronic, Lung**

Overfilling and distention of the veins with blood as a result of mechanical obstruction or heart problems.

## **PH 2: Lower Digestive System Test Kit** **28 vials**

*The energy patterns of various healthy and diseased tissues, e.g. colon, rectum, endometriosis in the colon, appendicitis, colitis, papilloma, vaculitis and cancers.*

**PH201 Adenocarcinoma, Colon**

A malignant tumor originating in glandular epithelium of the colon; the main type of colon cancer.

**PH202 Adenocarcinoma, Mucinous, Colon**

A malignant tumor originating in the glandular tissue of the colon; the cancer cells secrete significant amounts of mucin.

**PH203 Adenoma With Lymphoma, Colon**

A benign and a cancerous tumour in the colon.

**PH204 Adenomatous Polyp With Cancer, Colon**

A polyp that consists of abnormal but benign tissue growth, derived from glandular epithelium.

**PH205 Amoebic Colitis, Colon**

Diarrhoea, inflammation and ulceration of the colon, as a result of infection with entamoeba histolytica.

**PH206 Appendicitis, Acute**

Inflammation of the vermiform appendix.

**PH207 Appendicitis, Chronic Obliterative**

Inflammation of the vermiform appendix inflammation of the vermiform appendix with collapse of some tissues.

**PH208 Appendicitis, Muroid Degeneration With Fatty Infiltration Of Submucosa**

Degenerative disease of appendix, with excess amounts of fat.

**PH209 Appendicitis, Necrotic**

Inflammation of the vermiform appendix with dying tissue.

**PH210 Carcinoid Tumour, Appendix**

A tumour which secretes excessive amounts of the hormone serotonin (90% found in appendix).

**PH211 Carcinoma, Muroid, Fat In Sub-Mucosa, Rectum / Colorectal Cancer**

A malignant tumour arising from the cells lining the rectum, secreting significant amounts of mucin, with fat in the connective tissue.

**PH212 Colitis, Chronic, Colon**

Chronic inflammation of the colon.

**PH213 Colon**

The part of the large intestine that extends from the end of the small intestine to the rectum.

**PH214 Colon Wall With Balantidium Coli**

Colon wall showing presence of balantidium coli, a parasite usually harmless in man but may invade and ulcerate the intestinal wall, producing a colitis resembling amoebic dysentery.

**PH215 Dysentery, Amoebic, Colon**

Colon wall showing presence of entamoeba histolytica, with ulcerative inflammation.

**PH216 Dysentery, Bacillary, Colon**

An infection of the bowel caused by a bacterium called shigella.

**PH217 Endometriosis, Colon**

The presence and growth of functioning ovarian endometrial tissue in the colon s that often results in severe pain and infertility.

**PH218 Juvenile Polyp, Colon**

A smoothly rounded mucosal hamartoma which may be multiple and cause rectal bleeding, especially in the first decade of life; not pre-cancerous.

**PH219 Leiomyoma, Colon**

A benign tumor consisting of smooth muscle fibres.

**PH220 Melanoma, Degenerative, Rectum**

A malignant tumour of the rectum.

**PH221 Papilloma, Colon**

Benign tumour originating in epithelial cells of the colon.

**PH222 Papilloma, Rectum**

Benign tumour of epithelium of the rectum.

**PH223 Rectal Smear**

A smear taken from the rectum, containing faeces, bacteria etc.

**PH224 Rectum**

The last part of the large intestine.

**PH225 Tuberculous Lesions, Colon**

Abnormal changes in the colon as a result of tuberculosis.



**PH226 Ulcerative Colitis, Colon**

Chronic inflammation of the colon that produces ulcers in its lining; symptoms include abdominal pain, cramps, and loose discharges of pus, blood, and mucus from the bowel.

**PH227 Vasculitis, Chronic, Colon Wall Chronic Angiitis**

Chronic inflammation of a blood or lymph vessel of the bowel wall.

**PH228 Vasculitis, Colon Wall Angiitis**

Inflammation of a blood or lymph vessel of the bowel wall.

## **PH 3: Upper Digestive System Test Kit** **31 vials**

*The energy patterns of various healthy and diseased tissues, e.g. duodenum, esophagus, stomach, pyloric sphincter, gastritis, ulcers, Crohn's disease and cancers.*

**PH301 Adenocarcinoma, Mucinous, Stomach**

Cancer arising from glandular tissue in the stomach; the cancer cells produce mucin in significant amounts.

**PH302 Adenocarcinoma, Stomach / Gastric Cancer / Gastric Carcinoma / Stomach Cancer**

Cancer arising from glandular tissue in the stomach.

**PH303 Barrett's Disease With Severe Dysplasia, Esophagus**

A condition in which the cells lining the lower part of the esophagus have changed or been replaced with many abnormal cells that could lead to cancer of the esophagus.

**PH304 Carcinoma, Mucinous, Stomach / Colloid Carcinoma Of Stomach**

Cancer that began in the tissues that line the stomach; the cancer cells secrete conspicuous quantities of mucin.

**PH305 Carcinoma, Small Intestine**

Cancer that began in the tissues that line the small intestine.

**PH306 Celiac Disease / Sprue / Coeliac Disease**

An inherited disease where the intestinal lining is inflamed in response to a protein known as gluten.

**PH307 Crohn's Disease, Small Intestine / Inflammatory Bowel Disease / Regional Enteritis / Ileitis / Granulomatous Ileocolitis**

Inflammation and ulceration and thickening of wall as a result of a chronic autoimmune disease.

**PH308 Duodenum**

The first part of the small intestine connecting the stomach and the ileum.

**PH309 Enteritis, Subacute**

Inflammation of the small intestine, with characteristics between acute and chronic.

**PH310 Esophagus**

The muscular tube through which food passes from the throat to the stomach.

**PH311 Esophagus - Viral Changes And Fungus (HIV Positive)**

Changes in the tissue of the esophagus brought about by viral and fungal infections in someone who is HIV positive.

**PH312 Esophagus, Middle Region / Eosophagus**

Middle region of the tube connecting the pharynx and the stomach.

**PH313 Gastritis With Helicobacter, Stomach**

Inflammation of the stomach with the bacterium helicobacter present.

**PH314 Gastritis, Acute And Chronic, Stomach**

Inflammation of the stomach, showing both acute and chronic changes.

**PH315 Gastritis, Early Hypertrophic**

Inflammation of the stomach, showing early signs of increase in cell size.

**PH316 Herpes, Esophagus**

The esophagus showing tissue changes as a result of infection with herpes.

**PH317 Ileum**

The last part of the small intestine.

**PH318 Jejunum**

Portion of the small intestine that extends from the duodenum to the ileum.

**PH319 Leiomyosarcoma, Small Intestine**

A tumor of the muscles in the small intestine.

**PH320 Linitis Plastica**

Malignant infiltration of the gastric wall, usually involving the deep layers of the stomach.

**PH321 Peptic Ulcer, Chronic Gastric Ulcer Of Stomach**

An ulcer in the wall of the stomach or duodenum resulting from the action of the gastric juice on the mucous membrane.

**PH322 Polyp, Inflamed, Stomach**

An inflamed projecting growth in the stomach, usually benign.

**PH323 Pyloric Sphincter / Pyloro-Duodenal Junction**

The junction between the stomach and the small intestine.

**PH324 Pylorus Pyloric Region**

The region of the stomach that connects with the duodenum (first part of small intestine).

**PH325 Stomach**

Part of the digestive system; helps in the digestion of food by mixing it with digestive juices and churning it into a thin liquid.

**PH326 Stomach, Cardiac Region**

Region surrounding the superior opening of the stomach.

**PH327 Stomach, Fundic Region**

The part of the stomach that is furthest away from its opening with the esophagus.

**PH328 Ulcer With Candida, Benign, Stomach**

Non-malignant ulcer showing presence of candida in stomach.

**PH329 Ulcer With Repair, Benign, Esophagus**

Non-malignant ulcer showing evidence of repair in esophagus.

**PH330 Ulcer, Tuberculous, Small Intestine**

Ulcer in stomach caused by tuberculosis.

**PH331 Ulcer, Typhoid, Small Intestine**

Ulcer in small intestine caused by typhoid.

## **PH 4: Endocrine System Test Kit** **27 vials**

*The energy patterns of various healthy and diseased tissues, e.g.adrenal gland, pancreas, thyroid, myxoedema, goitre, Addison's disease and cancers.*

**PH401 Addison's Disease, Adrenal Glands / Adrenocortical Hypofunction / Chronic Adrenocortical Insufficiency/ Adrenal Insufficiency**

Adrenocortical hormone deficiency because of damage to the adrenal cortex; the damage may be caused by the immune system attacking the gland, TB, cancer, infection, etc.

**PH402 Adenocarcinoma, Pancreas**

A cancer arising in the glandular tissue of the pancreas; the most common form of pancreatic cancer.

**PH403 Adenoma, Adrenal Gland / Suprenal Adenoma**

A benign tumour of the adrenal gland.

**PH404 Adenoma, Parathyroid Gland**

A benign tumour of the parathyroid glands, which are located in the neck and help to regulate calcium metabolism.

**PH405 Adenoma, Pituitary Gland**

A tumour of the anterior lobe of the pituitary gland.

**PH406 Adrenal Gland Suprarenal**

Organs responsible for producing steroid and other hormones essential for life.

**PH407 Colloid Goitre, Thyroid**

Swelling of the thyroid gland in which the follicles of the gland are distended and filled with colloid (a gelatinous or mucinous substance).

**PH408 Cyst, Parathyroid Gland**

A closed sac having a distinct membrane and developing abnormally in the parathyroid gland.

**PH409 Diabetes Mellitus, Pancreas**

Pancreas showing changes of diabetes mellitus.

**PH410 Fatty Infiltration, Atrophy, Pancreas**

Infiltration of the tissues of the pancreas with excess amounts of fat, and wasting away of tissue.

**PH411 Follicular Adenoma, Thyroid**

A benign tumour of the thyroid gland.

**PH412 Follicular Carcinoma, Thyroid**

A type of thyroid cancer affecting the follicular cells which make thyroid hormone.

**PH413 Grave's Disease**

An autoimmune disease that causes overactivity of the thyroid gland.

**PH414 Hashimoto's Disease / Hashimoto's Thyroiditis / Hashimoto's Struma / Struma Lymphomatosa**

A chronic autoimmune disease that leads to thyroid enlargement, etc.

**PH415 Islet Cell Tumour, Pancreas**

Cancer arising from cells in the islets of Langerhans (hormone-producing cells in the pancreas).

**PH416 Large Cell Carcinoma, Adrenal Gland**

A cancer of the adrenal glands in which the cells are large and look abnormal under a microscope.

**PH417 Myasthenia Gravis, Thymus**

An autoimmune disease that causes muscle weakness.

**PH418 Myxoedema / Myxedema**

A condition in which the thyroid gland fails to produce enough thyroid hormone.

**PH419 Pancreas**

A glandular organ located in the abdomen; it makes pancreatic juices, which contain enzymes that aid in digestion, and it produces several hormones, including insulin.

**PH420 Papillary Carcinoma, Thyroid**

The most common thyroid gland carcinoma, often occurring before age 40 and much more common in women than in men.

**PH421 Parathyroid Gland**

Glands embedded in the thyroid gland; regulate calcium and phosphate levels in the blood.

**PH422 Phagocytosis, Pancreas**

Phagocytes devouring bacteria in the pancreas.

**PH423 Pituitary Gland Hypophysis**

The main endocrine gland, producing hormones that control other glands and many body functions, especially growth.

**PH424 Radiation Change, Thyroid**

Changes to the thyroid gland brought about by radiation treatment to it.

**PH425 Thyroid**

A gland located beneath the voice box (larynx) that produces thyroid hormone. The thyroid helps regulate growth and metabolism.

**PH426 Goitre / Goiter**

Enlarged thyroid gland.

**PH427 Pineal Gland / Epiphysis Cerebri**

Attached to the roof of the third ventricle near its junction with the mid-brain; secretes melatonin; full function is unclear.

## **PH 5: Gall Bladder & Liver Test Kit** **28 vials**

*The energy patterns of various healthy and diseased tissues, e.g. liver, gallbladder, Weil's disease, liver abscess, fatty degeneration of the liver, hepatoma, sarcoma of the liver, and cirrhosis.*

**PH501 Abscess, Liver**

A condition where there is a pus-filled cavity in the liver secondary to a bacterial infection.

**PH502 Acute Yellow Atrophy, Liver**

A severe usually fatal disorder in which the liver degenerates and is reduced in size as a result of toxic chemicals, infection, or other agents.

**PH503 Adenocarcinoma, Fatty Infiltrations, Liver**

Cancer of the liver with abnormal accumulation of fat droplets in the cytoplasm of cells.

**PH504 Adenocarcinoma, Gallbladder**

Cancer originating in the cells lining the gallbladder.

**PH505 Adenocarcinoma, Hepatic Metastasis**

A malignant tumor originating in glandular epithelium, metastasised to liver.

**PH506 Biliary Cirrhosis, Liver**

Cirrhosis of the liver due to inflammation or obstruction of the bile ducts resulting in the accumulation of bile in the liver.

**PH507 Biliary Obstruction, Liver**

Blockage of the bile ducts that can occur as a result of stones, tumours, bile duct inflammation, bile duct cysts, trauma, etc.

**PH508 Carcinoid, Secondary, Liver**

A cancer in the liver metastasised as a result of one in the mucosa of the gastrointestinal tract.

**PH509 Carcinoma, Secondary, Liver**

A carcinoma that has metastasised in the liver as a result of one elsewhere in the body.

**PH510 Cholecystitis, Chronic Active, Gallbladder**

Inflammation of the gallbladder that occurs most commonly because of obstruction of the cystic duct.

**PH511 Fatty Degeneration, Liver / Steatosis**

Abnormal formation of microscopically visible droplets of fat in the cytoplasm of cells of the liver, as a result of injury.

**PH512 Gallbladder**

The pear-shaped organ found below the liver that concentrates and stores bile.

**PH513 Hemangioma, Liver / Haemangioma**

A tangle of abnormal vessels that forms an abnormal communication between the arterial and venous systems, in this case of the liver.

**PH514 Hepatic Septic Infarcts**

An area of necrosis resulting from vascular obstruction due to emboli comprised of clumps of bacteria or infected material, in this case in the liver.

**PH515 Hepatoma**

A liver tumor (usually malignant).

**PH516 Inflammation, Chronic, Gallbladder**

Chronic inflammation of the gallbladder.

**PH517 Liver**

The largest organ in the body; carries out many important functions, e.g. Making bile, changing food into energy, and cleaning alcohol and poisons from the blood.

**PH518 Liver Congestion, Fatty Degeneration, Cloudy Swelling**

Swelling of liver cells due to injury to the membranes leading to an accumulation of intracellular water; also abnormal formation of microscopically visible droplets of fat in the cytoplasm of the cells.

**PH519 Liver, Cloudy Swelling, Dilation Of Capillaries**

Swelling of liver cells due to injury to the membranes leading to an accumulation of intracellular water; also showing capillaries dilating.

**PH520 Necrosis, Sub Acute, Liver**

Dying tissue, showing characteristics between acute and chronic.

**PH521 Papillary Tumour, Gallbladder**

A tumour shaped like a small mushroom with its stem attached to the inner lining of the gallbladder.

**PH522 Sarcoma, Secondary Melanotic, Liver**

A secondary cancer in the liver that has metastasised as a result of one in the supportive tissues such as bone, cartilage, fat or muscle.

**PH523 Syphilitic Cirrhosis, Liver**

Widespread disruption of normal liver structure by syphilis.

**PH524 Tuberculosis, Miliary, Liver**

Acute tuberculosis in which minute tubercles are formed in the liver by tubercle bacilli usually spread by way of the blood.

**PH525 Tumour, Malignant, Gallbladder**

A cancerous tumour in the gallbladder.

**PH526 Venous Congestion, Early, Liver**

Early signs of overfilling and distention of the veins with blood as a result of mechanical obstruction or heart problems.

**PH527 Venous Congestion, Late Chronic, Liver**

Extensive overfilling and distention of the veins with blood as a result of mechanical obstruction or heart problems.

**PH528 Weil's Disease, Liver / Spirochaetosis**

Liver showing signs of infection by leptospira with an illness whose symptoms include chills, fever, muscle pain, and hepatitis.

## **PH 6: Brain & Nervous System Test Kit** **25 vials**

*The energy patterns of various healthy and diseased tissues, e.g. cerebrum, cerebellum, thalamus, hippocampus, nerve, meningioma, encephalitis and infarcts.*

**PH601 Abscess, Cerebellum**

A localised collection of pus caused by suppuration in the cerebellum.

**PH602 Cerebellum**

The portion of the brain in the back of the head between the cerebrum and the brain stem; it controls balance for walking and standing, and other complex motor functions.

**PH603 Cerebral Hemorrhage / Cerebral Haemorrhage**

A sudden and abrupt bleeding into the tissue of the brain; usually occurs as the result of a weakened artery from the effects of high blood pressure and atherosclerosis.

**PH604 Cerebral Softening**

A localised softening of the brain substance due to inflammation or haemorrhage.

**PH605 Cerebrum**

The largest part of the brain, controlling muscle functions speech, thought, emotions, reading, writing, and learning.

**PH606 Dementia, Paralytica / Paralytic Dementia**

Dementia and paralysis resulting from a chronic syphilitic meningoencephalitis.

**PH607 Encephalitis, Post-Vaccinal**

Inflammation of the brain as a result of vaccination.

**PH608 Glioblastoma Multiforme**

A malignant brain tumour that accounts for 75% of glial tumours (arising from glial cells in the brain).

**PH609 Hippocampus**

Part of the limbic system of the brain, involved in emotions and memory.

**PH610 Infarct, Cortical, Brain**

Tissue death due to a local lack of oxygen in the cerebral cortex (outer layer that covers the cerebrum, functions chiefly in coordination of sensory and motor information).

**PH611 Infarct, Old, Cerebellum**

An old area of tissue death due to a local lack of oxygen in the cerebellum (concerned especially with the coordination of muscles and the maintenance of bodily equilibrium).

**PH612 Medulla Oblongata**

Lower part of brain stem; controls autonomic functions; relays nerve signals between the brain and spinal cord.

**PH613 Meningioma, Brain**

Common benign brain tumour that originates in the cells of the outer covering of the brain (meninges).

**PH614 Meningioma, Brain, Malignant**

Malignant tumour the cells of the outer covering of the brain (meninges).

**PH615 Meningitis With Cortical Oedema**

Inflammation of the meninges with fluid retention in the cortex.

**PH616 Meningitis, Pneumococcal**

Inflammation of the meninges of the brain as a result of infection by strep pneumoniae.

**PH617 Meningitis, Tuberculous**

Inflammation of the meninges of the brain as a result of tuberculosis.

**PH618 Nerve**

A bundle of fibers that uses electrical and chemical signals to transmit sensory and motor information from one body part to another.

**PH619 Nerve, Peripheral**

The nerves outside of the brain and spinal cord; they contain non-neuronal cells and connective tissue as well as axons

**PH620 Neuroblastoma**

Cancer that arises in immature nerve cells and affects mostly infants and children.

**PH621 Neurofibroma**

A benign tumor that develops from the cells and tissues that cover nerves.

**PH622 Pilocytic Astrocytoma, Brain / Juvenile Astrocytoma**

A nerve-tissue tumor composed of astrocytes; the most common brain tumor in children.

**PH623 Sympathetic Ganglion**

A group of nerve cell bodies either close to the spinal column or close to the large abdominal arteries.

**PH624 Thalamus**

A large mass of gray matter deeply situated in the forebrain; relays information received from various brain regions to the cerebral cortex.

**PH625 Toxoplasmosis, Brain**

Brain showing symptoms caused by toxoplasma gondii, often contacted via cat faeces.



# PH 6B: more Brain & Nervous System Test Kit

## 50 vials

*More healthy brain parts including amygdala, hypothalamus, prefrontal cortex and the primary motor cortex.*

### PH 6B 26 **Amygdala**

Groups of nuclei located deep and medially within the temporal lobes of the brain; considered part of the limbic system; performs a primary role in the processing of memory, decision-making and emotional reactions; controls the way we react to certain stimuli, or an event that causes an emotion, that we see as potentially threatening or dangerous.

### PH 6B 27 **Auditory Association Area**

An area in the temporal lobe of the brain within Wernicke's area near the lateral cerebral sulcus, which is critical for processing acoustic signals so they can be interpreted as speech, music or other sounds.

### PH 6B 28 **Auditory Cortex**

Located bilaterally, roughly at the upper sides of the temporal lobes. The part of the cerebral cortex that processes auditory information, performing basic and higher functions in hearing.

### PH 6B 29 **Basal Ganglia / Basal Nuclei**

Comprise multiple subcortical nuclei at the base of the forebrain. Strongly interconnected with the cerebral cortex, thalamus, and brainstem, as well as several other brain areas. Associated with a variety of functions including: control of voluntary motor movements, procedural learning, routine behaviours or habits such as bruxism (teeth grinding), eye movements, cognition and emotion.

### PH 6B 30 **Brain Stem**

The posterior part of the brain, adjoining and structurally continuous with the spinal cord; provides the main motor and sensory innervation to the face and neck via the cranial nerves; the nerve connections of the motor and sensory systems from the main part of the brain to the rest of the body pass through the brainstem. Also plays an important role in the regulation of cardiac and respiratory function, and also regulates the central nervous system, and is pivotal in maintaining consciousness and regulating the sleep cycle.

### PH 6B 31 **Brain Stem Reticular Formation**

Essential for governing some of the basic functions; involved in multiple tasks such as regulating the sleep-wake cycle and filtering incoming stimuli to discriminate irrelevant background stimuli.

### PH 6B 32 **Caudate Nucleus**

One of three basic structures that make up the basal ganglia; responsible largely for voluntary movement.

### PH 6B 33 **Cerebellar Nuclei**

Clusters of grey matter lying within the white matter at the core of the cerebellum. Give rise to nerve fibres that carry impulses from cerebellum to other parts of brain and to the spinal column.

### PH 6B 34 **Cerebral Cortex**

Grey matter that is outermost to the cerebrum; plays a key role in memory, attention, perceptual awareness, thought, language, and consciousness.

### PH 6B 35 **Cerebral Hemisphere, Left**

Concerned with spoken and written language, numerical and scientific skills, ability to use and understand language, reasoning.

### PH 6B 36 **Cerebral Hemisphere, Right**

Concerned with musical and artistic awareness, space and pattern perception, recognition of faces and emotional content of facial expressions, generating emotional content of language, generating mental images to compare spatial relationships.

### PH 6B 37 **Cerebrospinal Fluid**

A clear colourless bodily fluid found in the brain and spine; produced in the choroid plexus of the brain; acts as a cushion for the brain's cortex, providing basic mechanical and immunological

protection to the brain inside the skull, and it serves a vital function in cerebral auto-regulation of cerebral blood flow.

**PH 6B 38 Cingulate Gyrus**

Receives inputs from the thalamus and the neocortex, and projects to the entorhinal cortex via the cingulum; forms part of the limbic system, which is associated with mood and emotions; helps people to be flexible in learning and processing new situations; highly important in disorders such as depression and schizophrenia.

**PH 6B 39 Claustrum**

A thin, irregular, sheet of neurons which is attached to the underside of the neocortex in the centre of the brain; full range of functions unclear but plays a strong role in communication between the two hemispheres of the brain, specifically between cortical regions controlling attention.

**PH 6B 40 Cochlear Nuclei**

Collections of neurons in the brainstem that receive input from the cochlear nerve, that carries sound information from the cochleae. The outputs from the cochlear nuclei are received in higher regions of the auditory brainstem.

**PH 6B 41 Corpus Callosum**

A wide, flat bundle of neural fibres that connects the left and right cerebral hemispheres and facilitates inter-hemispheric communication.

**PH 6B 42 Dura Mater**

A thick membrane that is the outermost of the three layers of the meninges that surround the brain and spinal cord; it is responsible for keeping in the cerebrospinal fluid.

**PH 6B 43 Epithalamus**

A segment of the diencephalon; includes the habenula, the habenular commissure, the stria medullaris and the pineal body. Its function is the connection between the limbic system to other parts of the brain.

**PH 6B 44 Forebrain / Prosencephalon**

Contains the thalamus, hypothalamus and the cerebrum; functions including receiving and processing sensory information, thinking, perceiving, producing and understanding language, and controlling motor functions.

**PH 6B 45 Frontal Lobe, Left**

Considered our emotional control centre and home to our personality; involved in motor function, problem solving, spontaneity, memory, language, initiation, judgement, impulse control, and social and sexual behaviour; involved in controlling language related movement.

**PH 6B 46 Frontal Lobe, Right**

Considered our emotional control centre and home to our personality; involved in motor function, problem solving, spontaneity, memory, language, initiation, judgement, impulse control, and social and sexual behaviour; plays a role in non-verbal abilities.

**PH 6B 47 Globus Pallidus / Paleostriatum**

Part of the basal ganglia; involved in the regulation of voluntary movement; if the globus pallidus is damaged, it can cause movement disorders.

**PH 6B 48 Hindbrain / Rhombencephalon**

Includes the cerebellum, the pons and the medulla oblongata, which function collectively to support vital bodily processes.

**PH 6B 49 Hypothalamus**

Located below the thalamus, just above the brainstem; responsible for certain metabolic processes and other activities of the autonomic nervous system; synthesises and secretes certain neurohormones, and these in turn stimulate or inhibit the secretion of pituitary hormones; controls body temperature, hunger, important aspects of parenting and attachment behaviours, thirst, fatigue, sleep, and circadian rhythms.

**PH 6B 50 Inferior Colliculus**

The principal midbrain nucleus of the auditory pathway; receives input from several peripheral brainstem nuclei in the auditory pathway, as well as inputs from the auditory cortex.

**PH 6B 51 Inferior Olivary Nucleus**

The largest nucleus in the olivary body, part of the medulla oblongata; closely associated with the cerebellum, so is involved in control and coordination of movements, sensory processing and cognitive tasks.

**PH 6B 52 Insula / Insular Cortex / Insular Cortex / Insular Lobe**

A portion of the cerebral cortex folded deep within the lateral sulcus, the fissure separating the temporal and the frontal lobes; believed to be involved in consciousness and play a role in diverse functions usually linked to emotion or the regulation of the body's homeostasis.

**PH 6B 53 Internal Capsule**

Contains all of the pathways that allow information to be transferred between the cerebral cortex and the spinal cord, brainstem, and subcortical structures (ie: thalamus, basal ganglia).

**PH 6B 54 Midbrain / Mesencephalon**

A portion of the central nervous system associated with vision, hearing, motor control, sleep/wake, arousal (alertness), and temperature regulation.

**PH 6B 55 Motor Cortex**

Comprises the primary motor cortex, premotor cortex, and supplementary motor area. the region of the cerebral cortex involved in the planning, control, and execution of voluntary movements.

**PH 6B 56 Occipital Lobe, Left**

Is the visual processing centre of the brain containing most of the anatomical region of the visual cortex; receives visual input from the retina.

**PH 6B 57 Occipital Lobe, Right**

Is the visual processing centre of the brain containing most of the anatomical region of the visual cortex; receives visual input from the retina.

**PH 6B 58 Parietal Lobe, Left**

Part of the cerebral cortex; has to be able to process sensory information within seconds. The parietal lobe is where information such as taste, temperature, pain and touch are integrated, or processed. Several portions of the parietal lobe are important in language processing.

**PH 6B 59 Parietal Lobe, Right**

Part of the cerebral cortex; has to be able to process sensory information within seconds. The parietal lobe is where information such as taste, temperature, pain and touch are integrated, or processed. Several portions of the parietal lobe are important in language processing.

**PH 6B 60 Pons**

Area of the hindbrain that sits directly above the medulla; serves as a message station between several areas of the brain; helps relay messages from the cortex and the cerebellum. Without the pons, the brain would not be able to function because messages would not be able to be transmitted, or passed along; also plays a key role in sleep and dreaming.

**PH 6B 61 Precentral Gyrus**

Part of the primary motor cortex; the location of the primary somatosensory cortex, the main sensory receptive area for the sense of touch.

**PH 6B 62 Prefrontal Cortex / PFC**

The anterior part of the frontal lobes of the brain; has been implicated in planning complex cognitive behaviour, personality expression, decision making and moderating social behaviour; the basic activity of this brain region is considered to be orchestration of thoughts and actions in accordance with internal goals.

**PH 6B 63 Premotor Cortex**

Functions of the premotor cortex are diverse and not fully understood; projects directly to the spinal cord and therefore may play a role in the direct control of behavior, with a relative emphasis on the

trunk muscles of the body. May also play a role in planning movement, in the spatial guidance of movement, in the sensory guidance of movement, in understanding the actions of others, and in using abstract rules to perform specific tasks.

**PH 6B 64 Primary Motor Cortex / Brodmann'S Area 4**

Located in the posterior portion of the frontal lobe; works in association with other motor areas to plan and execute movements.

**PH 6B 65 Purkinje Neurons In Cerebellum**

Some of the largest neurons in the human brain; send inhibitory projections to the deep cerebellar nuclei, and constitute the sole output of all motor coordination in the cerebellar cortex.

**PH 6B 66 Putamen**

Located at the base of the forebrain; main function is to regulate movements and influence various types of learning. Employs GABA, acetylcholine, and enkephalin to perform its functions. Involved in degenerative neurological disorders, such as Parkinson's disease.

**PH 6B 67 Red Nucleus / Nucleus Ruber**

Located in the midbrain and involved in motor coordination; controls crawling of babies, arm swinging in normal walking; may play an additional role in controlling muscles of the shoulder and upper arm; also has limited control over hands.

**PH 6B 68 Somatosensory Cortex**

The main sensory receptive area for the sense of touch, including specific sensitivity to pain and temperature, and the proprioception system, which monitors the body's place in space.

**PH 6B 69 Stellate Cells/ Stellate Neurons from the V1 Region In The Visual Cortex**

Receive excitatory synaptic fibres from the thalamus and process feed forward excitation to the visual cortex pyramidal cells.

**PH 6B 70 Substantia Nigra**

Located in the mesencephalon/midbrain that plays an important role in reward, addiction, and movement. Parkinson's disease is characterized by the death of dopaminergic neurons in the substantia nigra pars compacta.

**PH 6B 71 Subthalamic Nucleus / STN**

Part of the basal ganglia system; exact function unknown, but considered to be one of the main regulators of motor function related to the basal ganglia. STN dysfunction has been shown to increase impulsivity in individuals presented with two equally rewarding stimuli.

**PH 6B 72 Superior Colliculus**

On the dorsal aspect of the midbrain; plays a role in helping orient the head and eyes to all types of sensory stimuli.

**PH 6B 73 Temporal Lobe, Left**

The temporal lobes are involved in the retention of visual memories, processing sensory input, comprehending language, storing new memories, emotion, and deriving meaning.

**PH 6B 74 Temporal Lobe, Right**

The temporal lobes are involved in the retention of visual memories, processing sensory input, comprehending language, storing new memories, emotion, and deriving meaning.

**PH 6B 75 Visual Cortex**

Located in the occipital lobe; part of the cerebral cortex responsible for processing visual information.

# PH 6C: yet more Brain & Nervous System Test Kit

## 26 vials

*More brain histology including grey and white matter, choroid plexus, and parts of the ventricular system. 26 vials for use by chiropractic physicians, kinesiologists, EAV practitioners, etc.*

### PH 6C 76 **Abducens Nucleus**

Nuclei in pons providing motor impulses that control eyeball movement via the abducens (VI cranial) nerves.

### PH 6C 77 **Arachnoid Villi / Granulations**

Small protrusions of the arachnoid (the thin second layer covering the brain) through the dura mater (the thick outer layer); allow cerebrospinal fluid to exit the sub-arachnoid space and enter the blood stream; act as one-way valves.

### PH 6C 78 **Calcarine Fissure / Calcarine Sulcus**

Located on the medial surface of the occipital lobe and divides the visual cortex into two.

### PH 6C 79 **Central Sulcus**

A prominent landmark of the brain, separating the parietal lobe from the frontal lobe and the primary motor cortex from the primary somatosensory cortex.

### PH 6C 80 **Cerebral Aqueduct**

Contains cerebrospinal fluid, and connects the third ventricle in the diencephalon to the fourth ventricle within the region of the mesencephalon and metencephalon.

### PH 6C 81 **Choroid Plexus**

A structure in the ventricles of the brain where cerebrospinal fluid is produced.

### PH 6C 82 **Diencephalon**

Located on top of the brain stem; consists of the thalamus, the subthalamus, the hypothalamus, and the epithalamus.

### PH 6C 83 **Facial Motor Nucleus / Facial Nucleus**

A collection of neurons in the brainstem that belong to the facial nerve (cranial nerve VII); they innervate the muscles of facial expression and the stapedius.

### PH 6C 84 **Fourth Ventricle**

Extends from the cerebral aqueduct to the obex, and is filled with cerebrospinal fluid.

### PH 6C 85 **Grey Matter / Gray Matter**

A major component of the central nervous system, consisting of neuronal cell bodies, neuropil (dendrite, myelinated and unmyelinated axons), glial cells (astroglia and oligodendrocytes) and capillaries; includes regions of the brain involved in muscle control, and sensory perception such as seeing and hearing, memory, emotions, speech, decision making, and self-control.

### PH 6C 86 **Hypoglossal Nucleus**

In the medulla oblongata; the nucleus of origin of the hypoglossal nerve (the twelfth cranial nerve that innervates muscles of the tongue).

### PH 6C 87 **Lateral Sulcus / Sylvian Fissure / Lateral Fissure**

Divides both the frontal lobe and parietal lobe above from the temporal lobe below.

### PH 6C 88 **Lateral Ventricle**

The right and left lateral ventricles are structures within the brain that contain cerebrospinal fluid; part of the body's ventricular system, which acts as a continuation of the central canal of the spinal cord; contains cerebrospinal fluid.

### PH 6C 89 **Medial Lemniscus / Reil's Band / Reil's Ribbon**

An ascending spinal tract, carrying sensory information to the thalamus.

### PH 6C 90 **Medial Longitudinal Fasciculus**

A longitudinal bundle of fibres extending from the mesencephalon into the cervical segments of the spinal cord; involved in innervating the external eye muscles, and innervating the musculature of the neck.

**PH 6C 91 Nucleus Ambiguus**

Contains the cell bodies of nerves that innervate the muscles of the soft palate, pharynx, and larynx which are strongly associated with speech and swallowing.

**PH 6C 92 Oculomotor Nucleus**

In the midbrain; the nerve controls most of the eye muscles.

**PH 6C 93 Pia Mater**

The delicate innermost layer of the meninges, which encloses the cerebrospinal fluid and so helps to protect and cushion the brain; allows blood vessels to pass through and nourish the brain. The space created between blood vessels and pia mater functions as a lymphatic system for the brain.

**PH 6C 94 Pontine Tegmentum**

A part of the pons of the brain involved in the initiation of REM sleep.

**PH 6C 95 Pretectal Nucleus**

Part of the subcortical visual system; involved primarily in mediating behavioural responses to acute changes in ambient light such as the pupillary light reflex, the optokinetic reflex, and temporary changes to the circadian rhythm.

**PH 6C 96 Pyramidal Neuron, Hippocampus**

The primary excitation units of the prefrontal cortex and the corticospinal tract; also found in the cerebral cortex and the amygdala.

**PH 6C 97 Subarachnoid Cavity / Subarachnoid Space**

The space between the arachnoid membrane and pia mater that is occupied by spongy tissue consisting of trabeculae (delicate connective tissue filaments) and intercommunicating channels in which the cerebrospinal fluid is contained.

**PH 6C 98 Superior And Inferior Parietal Lobules**

The superior parietal lobule is involved with spatial orientation, receiving visual input as well as sensory input from the hands; also involved with other functions of the parietal lobe in general. Inferior parietal lobe involved in the perception of emotions in facial stimuli, and interpretation of sensory information.

**PH 6C 99 Third Ventricle**

One of four connected cavities comprising the ventricular system within the human brain, containing cerebrospinal fluid.

**PH 6C 100 Trochlear Nucleus**

Nuclei in midbrain provide motor impulses that control eyeball movement, via the trochlear nerves (IV cranial nerves).

**PH 6C 101 White Matter / Arbor Vitae**

In the brain and superficial spinal cord, consisting mostly of glial cells and myelinated axons that transmit signals from one region of the cerebrum to another and between the cerebrum and lower brain centres.



## PH 6D: Cranial Nerves

### 26 vials

**Cranial nerves are the nerves that emerge directly from the brain (including the brainstem), in contrast to spinal nerves (which emerge from segments of the spinal cord). Cranial nerves relay information between the brain and parts of the body, primarily to and from regions of the head and neck.**

PH6D 01	Cranial Nerve I	Left	Olfactory Nerve	Involved in the sense of smell.
PH6D 02	Cranial Nerve I	Right	Olfactory Nerve	Involved in the sense of smell.
PH6D 03	Cranial Nerve II	Left	Optic Nerve	Involved in transmitting visual information.
PH6D 04	Cranial Nerve II	Right	Optic Nerve	Involved in transmitting visual information.
PH6D 05	Cranial Nerve III	Left	Oculomotor Nerve	Involved in eye movement.
PH6D 06	Cranial Nerve III	Right	Oculomotor Nerve	Involved in eye movement.
PH6D 07	Cranial Nerve IV	Left	Trochlear Nerve	Involved in eye movement.
PH6D 08	Cranial Nerve IV	Right	Trochlear Nerve	Involved in eye movement.
PH6D 09	Cranial Nerve V	Left	Trigeminal Nerve	Involved in sensation to the skin of the face and also controls the muscles of chewing.
PH6D 10	Cranial Nerve V	Right	Trigeminal Nerve	Involved in sensation to the skin of the face and also controls the muscles of chewing.
PH6D 11	Cranial Nerve VI	Left	Abducens Nerve	Involved in eye movement.
PH6D 12	Cranial Nerve VI	Right	Abducens Nerve	Involved in eye movement.
PH6D 13	Cranial Nerve VII	Left	Facial Nerve	Provide facial expression
PH6D 14	Cranial Nerve VII	Right	Facial Nerve	Provide facial expression
PH6D 15	Cranial Nerve VIII	Left	Vestibulocochlear Nerve	Involved in hearing and balance.
PH6D 16	Cranial Nerve VIII	Right	Vestibulocochlear Nerve	Involved in hearing and balance.
PH6D 17	Cranial Nerve IX	Left	Glossopharyngeal Nerve	Involved in oral sensation, taste, and salivation.
PH6D 18	Cranial Nerve IX	Right	Glossopharyngeal Nerve	Involved in oral sensation, taste, and salivation.
PH6D 19	Cranial Nerve X	Left	Vagus Nerve	Involved in parasympathetic control of the heart, lungs and digestive tract.
PH6D 20	Cranial Nerve X	Right	Vagus Nerve	Involved in parasympathetic control of the heart, lungs and digestive tract.
PH6D 21	Cranial Nerve XI	Left	Accessory Nerve	Involved in shoulder elevation and head-turning
PH6D 22	Cranial Nerve XI	Right	Accessory Nerve	Involved in shoulder elevation and head-turning
PH6D 23	Cranial Nerve XII	Left	Hypoglossal Nerve	Involved in tongue movement.
PH6D 24	Cranial Nerve XII	Right	Hypoglossal Nerve	Involved in tongue movement.
PH6D 25	Cranial Nerve XIII	Left	Zero Nerve	Thought either to be vestigial, so without function, or may be related to the sensing of pheromones. Also called Nerve N, / NT
PH6D 26	Cranial Nerve XIII	Right	Zero Nerve	Thought either to be vestigial, so without function, or may be related to the sensing of pheromones. Also called Nerve N, / NT

# PH 7: Skeletal System Test Kit

## 25 vials

*The energy patterns of various healthy and diseased tissues, e.g. bone, spinal chord, juvenile rheumatism nodule, chordoma, rickets, osteochondroma and osteosarcoma.*

**PH701 Bone**

**PH702 Bone, Healing Fracture**

A break in a bone that is healing.

**PH703 Bone, Long, Showing Compact And Cancellous Tissue**

Compact tissue has a dense structure without small cavities or cells, whereas cancellous has these cavities and cells (providing space for blood vessels).

**PH704 Bone, Spongy**

Cancellous Bone Makes up most of the bone tissue of short, flat and irregular shaped bones, and also a narrow rim around the marrow cavity and the ends of long bones.

**PH705 Chondrosarcoma**

Cancer of cartilage cells; the second most common primary bone cancer.

**PH706 Chordoma**

A malignant tumor that is derived from remnants of the embryonic notochord and occurs along the spine attacking especially the bones at the base of the skull or near the coccyx.

**PH707 Disseminating Sclerosis, Spinal Chord**

A pathological condition in which a tissue has become hard, as in multiple sclerosis.

**PH708 Ewing's Sarcoma Ewing's Tumour / Primitive Neuroectodermal Tumor**

A type of bone cancer that usually forms in the middle (shaft) of large bones; the third most common form of primary bone cancer.

**PH709 Femur, Ossifying**

Ossification of the large thigh bone.

**PH710 Fibrous Dysplasia, Bone**

A chronic disorder of the skeleton that causes expansion of one or more bones due to abnormal development of fibrous tissue within the bone.

**PH711 Giant Cell Sarcoma**

A bone cancer in which the cells look large under a microscope (produced by the fusion of many cells).

**PH712 Gouty Tophus**

A deposit of urates around a joint typical of people with gout.

**PH713 Intervertebral Disk, Fibrous Cartilage**

Spinal disc.

**PH714 Juvenile Rheumatism Nodule / Still's Disease**

A chronic, inflammatory disease that may cause joint or connective tissue damage. The onset occurs before age 16.

**PH715 Leg Fracture With Fat Embolism**

Fractured leg bone showing the occurrence of fat globules in the bloodstream that occur after the fracture of a long bone.

**PH716 Ossification**

The formation of bone or of a bony substance, the conversion of fibrous tissue or of cartilage into bone or a bony substance.

**PH717 Osteochondroma**

A benign cartilaginous tumour, often occurring near the ends of long bones.

**PH718 Osteosarcoma / Osteogenic Sarcoma**

A cancer of the bone that usually affects the arms, legs and pelvis; the most common primary bone cancer.

**PH719 Paget's Disease, Bone / Osteitis Deformans / Osteodystrophia Deformans**

A chronic disease of bones involving the replacement of normal bone marrow with vascular and fibrous tissue.

**PH720 Poliomyelitis, Spinal Chord**

Spinal chord showing the affects of the viral disease poliomyelitis.

**PH721 Rheumatoid Arthritis, Joint**

A disease in which the body recruits new blood vessels to the joints, causing swelling and inflammation.

**PH722 Rickets, Costochondral Junction**

The point where the ribs articulate with the sternum showing signs of rickets (vitamin D deficiency leading to disturbance in normal ossification).

**PH723 Spinal Chord, Cervical**

The spinal column in the region of the neck.

**PH724 Spinal Chord, Lumbar**

The spinal chord between the ribs and the pelvis.

**PH725 Spinal Chord, Thoracic**

The spinal column in the region of the ribs.

## **PH 7B: Vertebrae Test Kit** **34 vials**

The vertebral column, also known as backbone or spine, is a bony structure found in vertebrates. It is formed from individual bones called vertebrae (singular: vertebra).

In human anatomy, the vertebral column usually consists of 24 articulating vertebrae, and nine fused vertebrae in the sacrum and the coccyx. It is situated in the dorsal aspect of the torso, separated by intervertebral discs. It houses and protects the spinal cord in its spinal canal, and hence is commonly called the spine, or simply backbone.

This kit consists of 34 vials to include the 5th coccygeal vertebra which is occasionally present.

- V 01 Cervical Vertebra 1/C1/Atlas
- V 02 Cervical Vertebra 2 /C2/Axis
- V 03 Cervical Vertebra 3/C3
- V 04 Cervical Vertebra 4/C4
- V 05 Cervical Vertebra 5/C5
- V 06 Cervical Vertebra 6/C6
- V 07 Cervical Vertebra 7/C7/Vertebra Prominens
- V 08 Thoracic Vertebra 1/T1
- V 09 Thoracic Vertebra 2/T2
- V 10 Thoracic Vertebra 3/T3
- V 11 Thoracic Vertebra 4/T4
- V 12 Thoracic Vertebra 5/T5
- V 13 Thoracic Vertebra 6/T6
- V 14 Thoracic Vertebra 7/T7
- V 15 Thoracic Vertebra 8/T8
- V 16 Thoracic Vertebra 9/T9
- V 17 Thoracic Vertebra 10/T10
- V 18 Thoracic Vertebra 11/T11
- V 19 Thoracic Vertebra 12/T12

- V 20 Lumbar Vertebra 1/L1
- V 21 Lumbar Vertebra 2/L2
- V 22 Lumbar Vertebra 3/L3
- V 23 Lumbar Vertebra 4/L4
- V 24 Lumbar Vertebra 5/L5
- V 25 Sacral Vertebra 1/S1
- V 26 Sacral Vertebra 2 /S2
- V 27 Sacral Vertebra 3/S3
- V 28 Sacral Vertebra 4/S4
- V 29 Sacral Vertebra 5/S5
- V 30 Coccygeal Vertebra 1
- V 31 Coccygeal Vertebra 2
- V 32 Coccygeal Vertebra 3
- V 33 Coccygeal Vertebra 4 (occasionally not present)
- V 34 Coccygeal Vertebra 5 (very often not present)

## **PH 8: Muscle & Connective Tissues Test Kit**

### **26 vials**

*The energy patterns of various healthy and diseased tissues, e.g. adipose tissue, cartilage, voluntary and involuntary muscles, lipoma, sarcomas, cellulitis and chondroma.*

#### **PH801 Adipose Tissue**

Connective tissue in which fat is stored and which has the cells distended by droplets of fat.

#### **PH802 Cartilage, Elastic**

Provides strength and elasticity; found in external ear, epiglottis and auditory tubes.

#### **PH803 Cartilage, Fibrocartilage**

Cushions and protects, such as intervertebral discs, pads in knee joints and pad between two pubic bones.

#### **PH804 Cartilage, Hyaline**

Most abundant cartilage in the body, providing flexibility and support.

#### **PH805 Cellulitis, Acute, Thigh Muscle**

An acute, spreading infection of the deep tissues of the skin and muscle that causes the skin to become warm and tender.

#### **PH806 Chondroma**

Tumour composed in part of cartilage.

#### **PH807 Clear Cell Sarcoma, Muscle**

A cancer in a muscle.

#### **PH808 Collagenous Fibre / White Fibrous Tissue**

Strong, flexible but only slightly elastic, found in tendons and ligaments.

#### **PH809 Fat Necrosis, Omentum**

A benign condition where fatty tissue swells or becomes tender, can occur spontaneously or as the result of an injury; here affecting the omentum (layers of peritoneum that give fat to abdomen).

#### **PH810 Fibroma**

A benign (non-cancerous) tumour which consists of fibrous tissues or connective tissue.

#### **PH811 Fibrosarcoma**

A type of soft tissue sarcoma that begins in fibrous tissue, which holds bones, muscles, and other organs in place.

**PH812 Giant Cell Tumour, Tendon**

A usually benign tumour where the cells look under the microscope microscope (produced by the fusion of many cells).

**PH813 Hyaline Degeneration, Muscle**

Tissue degeneration in which structural elements of muscle cells are replaced by homogeneous translucent material.

**PH814 Inflammation, Acute, Omentum**

Inflammation of a fold of the peritoneum (the thin tissue that lines the abdomen) that surrounds the stomach and other organs in the abdomen.

**PH815 Leiomyosarcoma, Muscle**

A cancer composed in part of smooth muscle cells.

**PH816 Lipoma**

A benign tumour consisting of fatty or adipose tissue.

**PH817 Muscle, Involuntary**

Smooth muscles not ordinarily under the control of the will, activated by the autonomic nervous system.

**PH818 Muscle, Voluntary**

Muscle that can be made to contract or relax by conscious control.

**PH819 Muscular Dystrophy, Pseudohypertrophic**

A group of hereditary diseases characterised by progressive degeneration and/or loss of muscle fibres without nervous system involvement.

**PH820 Myositis, Muscle, From Rheumatoid Arthritis**

Muscular inflammation caused by rheumatoid arthritis.

**PH821 Peritoneum**

The smooth serous membrane which lines the cavity of the abdomen.

**PH822 Peritonitis, Intestine, Acute**

Inflammation of the smooth serous membrane which lines the cavity of the abdomen.

**PH823 Peritonitis, Mesentery, Acute**

Acute inflammation of the mesentery (a fold of the peritoneum surrounding the small intestine and binding it to the posterior abdominal wall).

**PH824 Spindle Cell Sarcoma**

A type of connective tissue cancer in which the cells are spindle-shaped when examined under a microscope.

**PH825 Spindle Cell Sarcoma With Necrosis**

A type of connective tissue cancer in which the cells are spindle-shaped when examined under a microscope, showing tissue death.

**PH826 Synovial Sarcoma, Tendon**

A malignant tumour that develops in the synovial membrane of the joints.

## **PH 9: Kidney & Urinary System Test Kit**

**33 vials**

*The energy patterns of various healthy and diseased tissues, e.g. kidney, bladder, urethra, ureter, kidney abscess, nephritis and cancers.*

**PH901 Abscess, Hemorrhage, Cloudy Swelling, Kidney**

A localised collection of pus surrounded by inflamed tissue, with bleeding, swelling and cellular oedema.

**PH902 Angiomyolipoma**

Hamartoma ( a mass resembling a tumour, but not a true tumour) in the kidney containing fat, muscle, vessels.

**PH903 Bladder**

Organ in which urine collects before evacuation from the body.

**PH904 Cirrhosis, Kidney**

Chronic interstitial inflammation of the tissues of the kidney.

**PH905 Clear Cell Carcinoma, Kidney / Adenocarcinoma Of Kidney / Renal Adenocarcinoma / Hypernephroid Carcinoma / Hypernephroma / Grawitz's Tumor**

A rare type of kidney cancer. Can spread from the kidney to other organs, most commonly the bone, but also including the lungs, brain, and soft tissues of the body.

**PH906 Diabetic Kidney**

Kidney tissue showing signs of changes brought about by long-term diabetes.

**PH907 Interstitial Cystitis, Bladder**

A bladder condition caused by chronic inflammation leading to difficulties with urination.

**PH908 Inverted Papilloma, Bladder / Transitional Cell Papilloma, Inverted Type**

A benign tumour of the bladder.

**PH909 Kidney**

A pair of organs which function to filter the blood and control the level of some chemicals in the blood such as hydrogen, sodium, potassium, and phosphate; they eliminate waste in the form of urine.

**PH910 Kidney Cortex**

One of the main functional parts of the kidney (outer zone).

**PH911 Kidney Medulla**

One of the main functional parts of the kidney (inner zone) containing the renal pyramids.

**PH912 Kidney, Bleeding**

Kidney tissue showing signs of bleeding.

**PH913 Kidney, Cloudy Swelling**

Kidney tissue showing signs of cellular oedema.

**PH914 Kidney, Post-Hypertensive**

Kidney tissue showing signs resulting from high blood pressure.

**PH915 Malacoplakia, Bladder / Malakoplakia**

Inflammation of the mucous membrane of the bladder characterised by the formation of soft granulomatous lesions.

**PH916 Nephritis, Acute**

Acute inflammation of the kidney.

**PH917 Nephritis, Chronic / Chronic Glomerulonephritis**

Chronic inflammation of the kidney.

**PH918 Nephritis, Subacute / Subacute Glomerulonephritis**

Inflammation of the kidney somewhere between acute and chronic.

**PH919 Papilloma, Bladder**

A benign tumour often resembling a wart arising from cells lining the bladder.

**PH920 Pyelonephritis, Chronic**

Inflammation of the kidney and its pelvis, beginning in the interstitium and rapidly extending to involve the tubules, glomeruli and blood vessels, due to bacterial infection.

**PH921 Renal Artery & Vein**

The main artery and vein of the kidney.

**PH922 Renal Atrophy, Hydronephrotic**

Abnormal enlargement of a kidney, which may be caused by blockage of the ureter (such as by a kidney stone) or chronic kidney disease that prevents urine from draining into the bladder.

**PH923 Renal Cell Carcinoma**

The most common form of kidney cancer which occurs when the cells lining the renal tubule undergo cancerous changes.

**PH924 Renal Cortical Necrosis, Symmetrical**

Dying tissue in the outer portion of the kidney.



**PH925 Renal Failure**

A slow decline in kidney function over time; chronic renal failure may be caused by a number of disorders which include long-standing hypertension, diabetes, congestive heart failure, lupus or sickle cell anaemia.

**PH926 Renal Infarct, Recent Bland**

Kidney showing area of recent tissue death due to a local lack of oxygen, but with no sign of infection.

**PH927 Transitional Cell Cancer, Bladder**

Cancer of the soft cuboidal cells of the bladder; these cells allow the bladder to stretch to collect urine.

**PH928 Tuberculosis, Kidney**

Kidney showing signs of tissue changes due to tuberculosis.

**PH929 Ureter**

The tube that carries urine from the kidney to the bladder.

**PH930 Urethra**

The tube that carries urine from the bladder and out through the penis.

**PH931 Venous Congestion, Kidney**

Overfilling and distention of the veins of the kidney with blood as a result of mechanical obstruction or right ventricular failure.

**PH932 Venous Congestion, Chronic, Kidney**

Chronic overfilling and distention of the veins of the kidney with blood as a result of mechanical obstruction or right ventricular failure.

**PH933 Wilm's Tumour**

Childhood cancer of the kidney.

## **PH 10: Lymph, Blood & Immune System Test Kit** **37 vials**

*The energy patterns of various healthy and diseased tissues, e.g. blood, bone marrow, lymph gland, anaemia, infarcts, leukemia and other cancers.*

**PH1001 Anaemia, Folate Deficiency / Folic Acid Deficiency / Megoblastic Anaemia**

A blood disorder characterized by anemia, with red blood cells that are larger than normal, resulting from a deficiency of folic acid.

**PH1002 Anaemia, Iron Deficiency**

Anemia A condition in which the blood is deficient in red blood cells, in hemoglobin, or in total volume, as a result of iron deficiency.

**PH1003 Anaemia, Pernicious**

A blood disorder caused by a lack of vitamin B12, as a result of lack of intrinsic factor production in the stomach.

**PH1004 Anaemia, Sickle Cell**

Chronic anemia occurring primarily in individuals of African descent.

**PH1005 Blood**

Red blood cells, white blood cells, platelets, and other substances suspended in fluid called plasma; blood takes oxygen and nutrients to the tissues, and carries away wastes.

**PH1006 Blood Film Increased Neutrophils (Many Young Forms)**

Blood showing many neutrophils; this may indicate bacterial infection, burns, stress or inflammation.

**PH1007 Bone Marrow**

Soft, sponge-like tissue in the centre of most large bones, producing white blood cells, red blood cells, and platelets.

**PH1008 Cancer, Metastatic Prostate Cancer, Lymph Gland**

Prostate cancer that has produced secondaries in a lymph node.

**PH1009 Eosinophilia, Blood**

Type of white blood cells.

**PH1010 Hodgkin's Disease, Lymph Gland**

Cells in the lymphatic system grow abnormally and may spread beyond the lymphatic system; with time compromises the body's ability to fight infection.

**PH1011 Infarct, Blood, Spleen**

An uninfected area of necrosis in the spleen produced by sudden blockage in an artery.

**PH1012 Infarct, Older, Spleen**

Death of an area of tissue caused by lack of blood supply.

**PH1013 Inflammatory Reaction, Lymph Gland**

Lymph gland showing signs of inflammation.

**PH1014 Leukemia, Acute Lymphocytic (Blood Sample)**

Acute Lymphoblastic Leukemia, Acute Lymphoid Leukemia, Acute Lymphatic Leukemia Most common form of childhood leukemia; a quickly progressing disease in which too many immature white blood cells are found in the blood and bone marrow.

**PH1015 Leukemia, Acute Myelocytic (Blood Sample)**

A rapidly progressing cancer that starts in blood-forming tissue such as the bone marrow, and causes large numbers of white blood cells to be produced and enter the blood stream.

**PH1016 Leukemia, Acute Myelocytic (Bone Marrow Sample)**

Involving uncontrolled proliferation of white blood cells.

**PH1017 Leukemia, Chronic Lymphocytic / Chronic Lymphatic Leukemia / Chronic Lymphoid Leukemia**

Most common form of leukemia, a slowly progressing disease in which too many white blood cells (lymphocytes) are found in the body.

**PH1018 Leukemia, Chronic Myeloid / Chronic Myelogenous Leukemia / Chronic Granulocytic Leukemia**

Leukemia affecting granulocytes, monocytes, red blood cells or platelets; these are usually mature in appearance but do not function properly.

**PH1019 Leukemia, Hairy Cell, Spleen / Leukemic Reticuloendotheliosis**

A cancer of lymphocytes (B cells) that leads to low blood counts; relatively uncommon.

**PH1020 Liposarcoma, Fat**

A sarcoma arising from immature fat cells of the bone marrow.

**PH1021 Lymph Gland / Lymph Node**

Lymph nodes filter lymph and store lymphocytes (white blood cells).

**PH1022 Lymph Gland Cancer, Secondary**

A cancer in the lymph gland which has metastasised from elsewhere.

**PH1023 Lymph Gland, Focal Necrosis, Active Congestion**

Lymph gland showing dead tissue, and active congestion.

**PH1024 Lymph Gland, Reactive**

A lymph gland that is enlarged because it is trying to fight off an infection.

**PH1025 Lymph Gland, Reactive HIV Positive**

A lymph gland that is enlarged because it is trying to fight off an infection as a result of HIV.

**PH1026 Multiple Myeloma, Bone Marrow**

Cancer of bone marrow, cells that normally make antibodies and other substances to fight infection.

**PH1027 Myelofibrosis, Bone Marrow**

A disorder in which the bone marrow is replaced by fibrous tissue.

**PH1028 Non-Hodgkin's Lymphoma, Lymph Gland / Lymphocytic Lymphoma / Histiocytic Lymphoma / Lymphoblastic Lymphoma**

Malignancy of lymph cells that have migrated outside the bone marrow to a lymph gland.

**PH1029 Phagocytosis, Lymph Gland**

Lymph gland showing phagocytes devouring bacteria.

**PH1030 Spleen**

Located on the left side of the abdomen near the stomach; produces lymphocytes, filters the blood, stores blood cells, and destroys old blood cells.

**PH1031 Thymoma, Thymus**

A cancer originating within the epithelial cells of the thymus.

**PH1032 Thymus**

In the chest behind the breastbone; an organ that is part of the lymphatic system, in which T lymphocytes grow and multiply.

**PH1033 Thymus, Child**

In the chest behind the breastbone; an organ that is part of the lymphatic system, in which T lymphocytes grow and multiply.

**PH1034 Tuberculosis, Lymph Gland**

Lymph gland showing signs of the chronic disease TB.

**PH1035 Tuberculosis, Spleen**

Spleen showing signs of TB.

**PH1036 Venous Congestion, Spleen**

Spleen showing signs of congestion in veins (as a result of mechanical obstruction or heart problems).

**PH1037 Mast Cells**

Produce histamine, which dilates small blood vessels; involved in body's reaction to injury and infection.

## **PH 11: Heart & Circulatory System Test Kit** **27 vials**

*The energy patterns of various healthy and diseased tissues, e.g. aorta, artery, vein, myocarditis, temporal arteritis, atheroma, arteriosclerosis and endocarditis.*

**PH1101 Aorta**

The large arterial trunk that carries blood from the heart to be distributed by branch arteries through the body.

**PH1102 Arterial Thrombus, Recent**

A recently formed blood clot in an artery.

**PH1103 Arteriosclerosis, Medial, Femoral Artery**

A chronic disease in which muscle and elastic fibres are replaced by fibrous tissue; here affecting the main artery in the thigh.

**PH1104 Artery**

Tubular branching muscular- and elastic-walled vessels that carry blood from the heart through the body.

**PH1105 Artery, Superior Mesenteric**

A large artery that arises from the aorta and supplies the greater part of the small intestine, the cecum, the ascending colon, and the right half of the transverse colon.

**PH1106 Atheroma, Aorta**

An abnormal fatty deposit in the aorta.

**PH1107 Atheroma, Subclavian Artery**

An abnormal fatty deposit in subclavian artery (large artery that passes to the upper arm)

**PH1108 Atherosclerosis, Artery**

Disease of wall of artery where inner layer thickens, causing a decrease in the capacity of the artery to transport blood.

**PH1109 Calcification Of Artery**

Abnormal deposits of calcium in an artery.

**PH1110 Cardiac Muscle / Heart Muscle**

The principal tissue in the heart wall.

**PH1111 Endocarditis, Subacute Bacterial, Aortic Valve**

Inflammation of the valve separating the aorta from the left ventricle that prevents blood from flowing back into the left ventricle.

**PH1112 Fatty Degeneration, Heart Muscle**

Abnormal formation of microscopically visible droplets of fat in the cytoplasm of cells of the heart muscle.

**PH1113 Hypertrophy, Heart Muscle**

Enlarged heart muscle.

**PH1114 Mitral Valve, Recent And Older Vegetations**

Roughenings on one of heart valves usually as a result of acute rheumatism.

**PH1115 Myocardial Fibrosis**

Heart muscle scarred from chronic disease.

**PH1116 Myocardial Infarct, Old And Recent / Heart Attack**

Tissue of the heart muscle has died and is permanently damaged because of an inadequate supply of oxygen to that area.

**PH1117 Myocarditis**

Inflammation of the muscular walls of the heart.

**PH1118 Myoxma**

A primary heart tumour; this is uncommon as most heart tumours have spread from elsewhere in the body.

**PH1119 Post-Hypertensive Sclerosis, Peripheral Artery**

Hardening of a peripheral artery as a result of high blood pressure.

**PH1120 Rheumatic Endocarditis, Mitral Valve**

Inflammation of the inner most lining of the heart cavities and mitral valve.

**PH1121 Syphilis, Basilar Artery**

Syphilitic changes in the artery that supplies the pons, cerebellum, posterior part of the cerebrum, and the inner ear.

**PH1122 Temporal Arteritis Inflammation of the arteries.**

**PH1123 Thrombosis, Septic, Sigmoid Sinus**

A blood clot with putrefaction within a blood vessel in the sigmoid sinus cavity (skull).

**PH1124 Vasculitis, Rheumatoid Arthritis On Steroids**

Inflammation of blood vessels; a symptom sometimes associated with rheumatoid arthritis.

**PH1125 Vein**

A tube carrying blood from the capillaries towards the heart.

**PH1126 Vena Cava**

Two large veins which take deoxygenated blood into the right atrium of heart for delivery to the lungs.

**PH1127 Venous Thrombosis, Muscle**

A blood clot in a vein in a muscle.

# PH12: Reproductive System - Female Breast Only Test Kit

## 25 vials

*The energy patterns of various healthy and diseased tissues, e.g. breast, lactating breast, fibroadenoma, Paget's disease, benign tumours and various cancers.*

### PH1201 **Adenofibroma**

A benign tumor of glandular and fibrous tissue.

### PH1202 **Adenomyoma**

A benign tumor composed of muscular and glandular elements.

### PH1203 **Breast / Mammary Gland**

Glands that produce milk for young.

### PH1204 **Breast Lactating**

Breast actively producing milk.

### PH1205 **Breast, Cancer In Lymphatics**

Breast cancer in lymph vessels.

### PH1206 **Carcinoma, Medullary**

An invasive breast cancer that forms a distinct boundary between tumor tissue and normal tissue (about 5% of breast cancers).

### PH1207 **Carcinoma, Mucinous / Colloid Carcinoma**

A rare breast cancer formed by the mucus-producing cancer cells.

### PH1208 **Chondromatous Changes**

A benign tumor containing the structural elements of cartilage.

### PH1209 **Comedocarcinoma**

Form of breast cancer in which plugs of necrotic malignant cells may be expressed from the ducts.

### PH1210 **Ductal Carcinoma And Sclerosing Adenosis / Ductal Cancer With Adenofibrosis / Fibrosing Adenomatosis / Fibrosing Adenosis**

Cancer of the breast ducts with other benign lesions.

### PH1211 **Ductal Carinoma In Situ Intraductal Carcinoma**

The most common type of non-invasive breast cancer, is confined to the ducts of the breast.

### PH1212 **Fibroadenoma**

Common benign breast tumors often too small to feel by hand..

### PH1213 **Histiocytic Lymphoma**

A malignant tumour of reticular tissue.

### PH1214 **Infiltrating Ductal Carcinoma / Invasive Ductal Carcinoma / IDC**

The most common type of invasive breast cancer, starting in the cells that line the milk ducts in the breast, grows outside the ducts, and often spreads to the lymph nodes.

### PH1215 **Intraductal Fibroadenoma**

A benign solid growth found in the ducts of the breast.

### PH1216 **Intraductal Papillomas**

Non-cancerous wart-like growths that have grown inside the breast, often involving the large milk ducts near the nipple, causing bloody nipple discharge.

### PH1217 **Lobular Carcinoma In Situ / Lobular Neoplasia / Noninfiltrating Lobular Carcinoma**

Non-invasive cancer that begins in the lobules (the milk-producing glands of the breast).

### PH1218 **Mastitis, Chronic**

Inflammation of breast tissue usually as a result of bacterial infection, most commonly occurring during lactation.

### PH1219 **Paget's Disease**

A form of breast cancer that begins in the milk ducts and spreads to the skin of the nipple and areola; Paget's disease of the nipple only accounts for about 1% of breast cancers.

**PH1220 Papillary Carcinoma**

A malignant tumour characterised by the formation of numerous, irregular, finger-like projections of fibrous stroma that is covered with a surface layer of neoplastic epithelial cells.

**PH1221 Phyllodes Tumour / Phylloides Tumour**

Can be either benign (non-cancerous) or malignant (cancerous); develops in the connective tissues of the breast.

**PH1222 Scirrhous Breast Cancer**

A hard slow-growing malignant tumour having a preponderance of fibrous tissue.

**PH1223 Tuberculosis, Breast**

Breast showing signs of tuberculosis.

**PH1224 Tubular Adenoma**

A benign tumour composed of epithelial tissue resembling a tubular gland.

**PH1225 Tubular Carcinoma**

An invasive breast carcinoma, accounting for about 2% of breast cancer diagnoses.

## **PH 13: Female Reproductive Excluding Breasts Test Kit** **33 vials**

*The energy patterns of various healthy and diseased tissues, e.g. ovary, vagina, uterus, cervix with CIN changes, ovarian cyst, genital wart, fibroids and cancers.*

**PH1301 Adenocarcinoma, Cervix, Endocervix**

Cancer of the mucous membrane of the cervical canal.

**PH1302 Adenocarcinoma, Uterus**

Cancer that begins in the cells that line the uterus.

**PH1303 Carcinoma, Fallopian Tube**

Carcinoma Of Oviduct, Carcinoma Of Uterine Tubes Cancer of the fallopian tubes.

**PH1304 Cervix**

The lower part and neck of the uterus.

**PH1305 Cervix, CIN1 to CIS**

CIN is a general term for the growth of abnormal cells on the surface of the cervix. Numbers from 1 to 3 are used to describe how much of the cervix contains abnormal cells; CIS is cancer in situ.

**PH1306 Cervix, CIN3 to CIS**

CIN is a general term for the growth of abnormal cells on the surface of the cervix. Numbers from 1 to 3 are used to describe how much of the cervix contains abnormal cells; CIS is cancer in situ.

**PH1307 Cervix, CIS**

A non-invasive cancer of the cervix.

**PH1308 Chancre, Cervix**

The primary skin lesion of syphilis which begins at the site of infection after an interval of 10-30 days as a papule or red ulcerated skin lesion.

**PH1309 Clear Cell Carcinoma, Ovary**

One of the subtypes of epithelial ovarian cancer. It can range from benign to aggressive, depending on grade.

**PH1310 Corpus Albicans**

Once the corpus luteum degenerates it becomes the corpus albicans.

**PH1311 Corpus Luteum**

Endocrine gland in ovary formed when ovum discharged; if the ovum impregnated, the corpus luteum increases in size and persists for several months, (secretes estrogens, progesterone, relaxin and inhibin); otherwise degenerates and shrinks.

**PH1312 Cyst, Ovary**

An abnormal lump filled with fluid or similar in the ovary.



**PH1313 Cystic & Adenomatous Hyperplasia, Endometrium**

Multiple cysts and an abnormal increase in the number of cells of glandular origin in the endometrium (the layer of tissue that lines the uterus).

**PH1314 Dysplasia, Moderate To Severe, Cervix**

Cells look abnormal under a microscope but are not cancerous.

**PH1315 Dysplasia, Moderate, Cervix**

Cells look abnormal under a microscope but are not cancerous.

**PH1316 Fallopian Tube**

The tube through which eggs pass from the ovaries to the uterus.

**PH1317 Fibroids**

Fibromyomas, Fibromas, Fibroleiomyomas, Leiomyoma, Simply Myomas Benign tumours of the uterus composed of smooth muscle and fibrous connective tissue.

**PH1318 Fibroids With Hyaline Degeneration / Fibromyomas / Fibromas / Fibroleiomyomas / Leiomyoma / Simply Myomas**

Benign tumours of the uterus composed of smooth muscle and fibrous connective tissue, showing tissue degeneration.

**PH1319 Genital Wart / Condyloma Acuminatum / Condyloma / Venereal Wart**

A wart on the skin or adjoining mucous membrane usually near the anus and genital organs.

**PH1320 Leiomyosarcoma, Uterus**

A tumour of the muscles in the uterus.

**PH1321 Mixed Mullerian Tumour, Uterus / Carcinosarcoma, Mixed Mesodermal Tumour**

A sarcoma that consists of both endometrial carcinoma and stromal sarcoma.

**PH1322 Ovary**

Female reproductive glands in which the ova, or eggs, are formed, located in the pelvis, one on each side of the uterus.

**PH1323 Papillary Carcinoma, Endocervix**

A malignant tumour of the mucous membrane of the cervical canal.

**PH1324 Salpingitis, Purulent**

Inflammation of the fallopian tube with discharge of pus.

**PH1325 Salpingitis, Sub-Acute**

Inflammation of the fallopian tube somewhere between acute and chronic.

**PH1326 Squamous Cell Carcinoma, Vulva**

Cancer that begins in squamous cells, which are thin, flat cells that look like fish scales, in the vulva (the external part of the female genitalia).

**PH1327 Stromal Hyperplasia, Ovary**

An abnormal increase in the number of connective tissue cells that hold the ovary together and those that produce the female hormones (estrogen and progesterone).

**PH1328 Teratoma, Benign Cystic, Ovary**

A type of non-malignant tumour originating in germ cells (cells that produce the eggs).

**PH1329 Ulceration, Tubercular, Fallopian Tube**

Fallopian tube showing signs of ulceration as a result of TB.

**PH1330 Urine, Malign Cervical Cells**

Urine with cancerous cervical cells in it.

**PH1331 Uterus Womb**

The small, hollow, pear-shaped organ in a woman's pelvis; this is the organ in which an unborn child develops.

**PH1332 Uterus, Active Menstruation**

The uterus with the lining (the endometrium) being shed that occurs when a woman is not pregnant.

**PH1333 Vagina Birth Canal**

The muscular canal extending from the uterus to the exterior of the body.

## PH 13B: More Female Reproductive 47 vials

Code	Name	Description
PH13B 34	Adeno Carcinoma, Meta-static	Metastatic adenocarcinoma can crop up in different parts of the body.
PH13B 35	Adeno Malignum	A rare variant of Adenocarcinoma of the uterine cervix.
PH13B 36	Bartholin Cyst	A small fluid-filled sac just inside the opening of a woman's vagina.
PH13B 37	Brenner Tumour	Uncommon subtype of the surface epithelial-stromal tumour group of ovarian tumour. The majority are benign, but some can be malignant.
PH13B 38	Cervical Polyp	Small, elongated tumours that grow on the cervix; usually benign.
PH13B 39	Cervical Polyp, Carcinoma	Small, elongated tumours that grow on the cervix; usually benign, but here cancerous.
PH13B 40	Cervicitis	An inflammation of the cervix; possible symptoms include bleeding between menstrual periods, pain with intercourse, and abnormal vaginal discharge, but may be without symptoms.
PH13B 41	Cervicitis, Tuberculous	Cervix affected by TB from elsewhere in the body.
PH13B 42	Cervix, Carcinoma, Early	Cervical cancer
PH13B 43	Cervix, CIN1/HPV	An abnormal cervical intraepithelial growth with the human papilloma virus.
PH13B 44	Cervix, Nabothian Cysts	Mucous-filled cyst on the surface of the cervix, usually requiring no treatment.
PH13B 45	Cervix, Squamous Cell Carcinoma	Squamous cells are the flat, skin-like cells covering the outer surface of the cervix; between 70% to 80% of cervical cancers.
PH13B 46	Chorio Epithelioma / Chorioblastoma / Chorionic Carcinoma	A malignant, fast-growing tumour that develops from trophoblastic cells (cells that help an embryo attach to the uterus and help form the placenta); spreads through the blood to other organs, especially the lungs. Also called chorioblastoma, choriocarcinoma, and chorionic carcinoma.
PH13B 47	Corpus Luteum, Cyst	Can lead to painful symptoms; may go away on their own, but some may require treatment.
PH13B 48	Disgerminoma	A type of germ cell tumour; usually malignant and usually occurs in the ovary.
PH13B 49	Egg / Oocyte	
PH13B 50	Egg and Sperm	
PH13B 51	Endometriosis Tubae	Endometrial tissue in the fallopian tubes.
PH13B 52	Endometritis, Chronic	Inflammation of the inner lining of the uterus; symptoms may include fever, lower abdominal pain, and abnormal vaginal bleeding or discharge.
PH13B 53	Endometrium, Early Proliferative	The time during the menstrual cycle when a layer of endometrial cells is prepared for attachment of a fertilised egg.
PH13B 54	Endometrium, Cancerous Polyp	Cancerous overgrowths of tissue cells in the lining of the uterus.
PH13B 55	Endometrium, Decidual Change	Decidualisation is a process that results in significant changes to cells of the endometrium in preparation for, and during, pregnancy.
PH13B 56	Endometrium, Early Premenstrual	The inner lining of uterus in the early premenstrual phase.

<b>Code</b>	<b>Name</b>	<b>Description</b>
PH13B 57	Endometrium, Late Pre-menstrual	The inner lining of uterus in the late premenstrual phase.
PH13B 58	Endometrium, Normal	The inner lining of uterus.
PH13B 59	Graafian Follicle / Tertiary Vesicular Follicle / Mature Vesicular Follicle / Ripe Vesicular Follicle	The third stage of follicle development leading eventually to ovulation.
PH13B 60	Graafian Follicle Cyst / Benign Ovarian Cyst / Functional Cyst	Mainly symptom-free and resolving without any intervention
PH13B 61	Krukenberg Tumour	A malignant tumour in the ovary that metastasised from a primary site, often the gastrointestinal tract.
PH13B 62	Myometrium	The middle layer of the uterine wall; main function is to induce uterine contractions.
PH13B 63	Ovarian Serous Cystadenoma	The most common ovarian tumour, representing 20% of ovarian neoplasms; benign.
PH13B 64	Ovary, Chorionepithelioma	A malignant, fast-growing tumour; most commonly found in uterus, but a small number form in an ovary.
PH13B 65	Ovary, Endometriosis	Tissue similar to the tissue that normally lines the inside of your uterus growing in the ovary; often very painful.
PH13B 66	Ovary, Fibroma	
PH13B 67	Ovary, Granulosa Cell Tumour	A rare type of ovarian cancer.
PH13B 68	Ovary, Mucinous Cystadenofibroma	A benign ovarian tumour that generally affects women in their forties.
PH13B 69	Ovary, Normal, Senile	
PH13B 70	Ovary, Sarcoma	A cancer originating in the connective tissue.
PH13B 71	Ovary, Serous Cystadenoma	Most common ovarian growth; benign.
PH13B 72	Uterus, Adenoma	
PH13B 73	Uterus, Endometrial Polyp	
PH13B 74	Uterus, Sarcoma, Round Cell	Highly aggressive malignant tumour composed of relatively small and monotonous undifferentiated cells.
PH13B 75	Vagina, Sarcoma, Primary	This cancer has spread from the primary site elsewhere in the body. Develops in the connective tissue cells or muscles cells in the walls of the vagina.
PH13B 76	Vagina, Sarcoma, Secondary	This cancer has spread from the primary site elsewhere in the body. Develops in the connective tissue cells or muscles cells in the walls of the vagina
PH13B 77	Vulva, Adenocarcinoma	Around 10% of vaginal cancers are adenocarcinomas.
PH13B 78	Vulva, Epithelioma	Can be malignant or non-malignant.
PH13B 79	Vulva, Kraurosis	Atrophy and shrinkage of the skin of the vulva often accompanied by a chronic inflammatory reaction in the deeper tissues.
PH13B 80	Vulva, Normal	The external female sex organs.

# PH 14: Male Reproductive System Test Kit

## 25 vials

*The energy patterns of various healthy and diseased tissues, e.g. penis, testis, sperm, vas deferens, prostate gland and various cancers and tumours.*

**PH1401 Adenocarcinoma, Prostate Gland**

Cancer that began in the cells that line the prostate and have glandular properties.

**PH1402 Adenomatoid Tumour, Epididymis**

A small, circumscribed, benign tumour in the epididymis (tube where sperm mature).

**PH1403 Adenomatoid Tumour, Vas Deferens**

A small, circumscribed, benign tumour of the spermatic chord (a structures that includes the vas deferens, arteries, veins, lymphatic vessels, and nerves).

**PH1404 Breast, Gynecomastia**

An excessive development of the male mammary glands, even to the functional state.

**PH1405 Ductal Carcinoma In Breast, Male**

A carcinoma derived from epithelium of ducts of the male breast.

**PH1406 Embryonal Carcinoma**

A malignant neoplasm of the testis, composed of large cells with indistinct cellular borders.

**PH1407 Epididymis**

The duct in which sperm undergo maturation.

**PH1408 Fibroadenoma, Prostate Gland**

Benign tumour of the prostate gland.

**PH1409 Hypertrophy, Prostate Gland**

Enlarged Prostate, Nodular Hyperplasia, Prostate Gland Increase in size of inner zone of prostate; common in men over 50.

**PH1410 Leydig Cell Tumour, Testis**

The most common nongerminal tumour of the testis, derived from the leydig cells; rarely malignant.

**PH1411 Penis**

The external male reproductive organ, containing a tube called the urethra, which carries semen and urine to the outside of the body.

**PH1412 Prostate Gland**

A gland just below the bladder.; surrounds part of the urethra, the canal that empties the bladder, and produces a fluid that forms part of semen.

**PH1413 Prostate, Senile**

A prostate showing deterioration that comes with age.

**PH1414 Prostatitis**

Inflammation of the prostate gland, usually due to an infection.

**PH1415 Sarcoma, Testicle**

A connective tissue cancer of the testicle.

**PH1416 Seminal Vesicle**

Glands that help produce semen.

**PH1478 Seminoma, Testis**

A rapidly dividing cancer of the testicle which is thought to arise from primordial germ line cells while the individual is still an embryo and the testicle has not yet been sexually differentiated from the generic gonad.

**PH1418 Sperm / Spermatozoa**

Mature male germ cells that fertilise the ovum.

**PH1419 Syphilis, Gumma, Testis**

Late stage of syphilis.

**PH1420 Teratoma, Testis**

A type of germ cell tumour that may contain several different types of tissue; not all teratomas are malignant.

**PH1421 Testis / Testicle**

The two egg-shaped glands found inside the scrotum that produce sperm and male hormones.

**PH1422 Testis, Atrophic**

Testicle showing signs of lessening of size of cells.

**PH1423 Testis, Inhibition Of Spermiogenesis (Hormone Disorder)**

A reduction in production of sperm as a result of a hormone disorder.

**PH1424 Tuberculosis, Testis And Epididymis**

Testis and epididymis showing signs of tubercular changes.

**PH1425 Vas Deferens / Deferent Canal / Deferent Duct / Spermatic Duct / Spermiduct / Testicular Duct / Ductus Deferens**

A coiled tube that carries the sperm out of the testes.

## **PH 15: Pregnancy & Neonatal Test Kit** **21 vials**

*The energy patterns of various healthy and diseased tissues, e.g. bone marrow of new born, placenta, umbilical chord, pregnant uterus and chromosomes.*

**PH1501 Bone Marrow, New Born**

The soft, sponge-like tissue in the center of most large bones, which produces white blood cells, red blood cells, and platelets.

**PH1502 Chromosomes, Downs Syndrome**

A disorder caused by the presence of an extra chromosome 21 and characterized by mental retardation and distinguishing physical features.

**PH1503 Chromosomes, Female**

Female genetic material.

**PH1504 Chromosomes, Male**

Male genetic material.

**PH1505 Corpus Luteum Of Pregnancy**

Endocrine gland in ovary formed when ovum discharged; if the ovum impregnated, the corpus luteum increases in size and persists for several months, (secretes estrogens, progesterone, relaxin and inhibin); otherwise degenerates and shrinks.

**PH1506 Developing Cartilaginous Bone, Joint Of Human Foetus**

Cartilaginous bone is pre-formed in cartilage.

**PH1507 Erythroblastosis Fetalis, Placenta**

Immune Hydrops Fetalis, Hemolytic Disease Of The Newborn Due To Rh Incompatibility A severe anemia that develops in an unborn infant because the mother produces antibodies that attack the fetus' red blood cells.

**PH1508 Fetal And Placental Tissue**

The placenta allows for exchange of material by diffusion between the maternal and foetal vascular systems but without direct contact between the two blood systems.

**PH1509 Hydatid Mole, Placenta**

The pregnancy goes wrong at the time of fertilisation of the egg by the sperm; the placenta grows as a series of cysts which look rather like grapes, but there is no foetus.

**PH1510 Hydatid Mole, Uterus**

The pregnancy goes wrong at the time of fertilisation of the egg by the sperm; the placenta grows as a series of cysts which look rather like grapes, but there is no foetus.

**PH1511 Neonatal Hepatitis**

Inflammation of the liver most usually of viral origin.

**PH1512 Neuroblastoma, New Born**

Malignant tumour derived from primitive ganglion cells.

**PH1513 Peritonitis, Meconium, Colon**

Inflammation of the peritoneum by meconium (bile, mucus and shed intestinal cells, normally passed just after birth), caused by bowel perforation.

**PH1514 Placenta**

The organ that nourishes the developing foetus in the uterus.

**PH1515 Placental Tissue, Early**

Early development of the placenta, the organ that nourishes the developing foetus in the uterus.

**PH1516 Respiratory Distress Syndrome / Hyaline Membrane Disease**

Found in premature babies and those born by Caesarean section, involves difficulty in breathing; may also occur later in life when lungs have been damaged by disease or injury.

**PH1517 Rib, Normal Of Newborn**

A rib in a newborn baby that has developed normally.

**PH1518 Term Pregnancy Products**

Placental tissue, blood etc. Normally expelled after a baby is born.

**PH1519 Tooth Developing, Early Tooth**

A tooth in the process of development.

**PH1520 Umbilical Chord / Umbilical Cord**

A cord arising from the navel that connects the fetus with the placenta and contains the two umbilical arteries and the umbilical vein.

**PH1521 Uterus Pregnant**

A uterus showing the changes of pregnancy.

## **PH 16: Eyes, Nose, Ears & Mouth Test Kit** **25 vials**

*The energy patterns of various healthy and diseased tissues, e.g. cornea, optic nerve, palate, parotid gland, tongue, tonsil, tooth and malignant and benign tumours. 25 vials.*

**PH1601 Carcinoma, Tongue**

A cancer of the tongue.

**PH1602 Cheek, Epithelium, Squamous Buccal Mucosa**

The inner lining of the cheek showing squamous cells (thin, flat cells that look like fish scales).

**PH1603 Cornea**

The transparent part of the coat of the eyeball that covers the iris and pupil and admits light to the interior.

**PH1604 Ear, Internal, Foetal**

The internal ear of the foetus.

**PH1605 Eye, Anterior Part**

A front section of the human eye.

**PH1606 Eyelid**

Eyelids shade and protect the eye.

**PH1607 Glioma, Optic Nerve**

A cancer in the glial cells that surround and support the optic nerve (the nerve that carries messages from the retina to the brain).

**PH1608 Malignant Mixed Tumour, Palate**

A cancerous tumour of the roof of the mouth consisting of at least two tissue types.

**PH1609 Malignant Mixed Tumour, Paratoid Gland**

A cancerous tumour of a salivary gland consisting of at least two tissue types.



**PH1610 Mouth Smear**

Contains saliva etc.

**PH1611 Mouth, Bacteria (Gram Positive And Negative)**

A sample taken from the mouth showing two types of bacteria.

**PH1612 Nasal Epithelium**

Lining of the nose.

**PH1613 Odontogenic Keratocyst, Mandible / Keratinizing Cyst**

A jawbone cyst that develops a horny layer.

**PH1614 Optic Nerve**

The nerve that carries messages from the retina to the brain.

**PH1615 Palate, Soft**

The posterior portion of the roof of the mouth.

**PH1616 Parotid Gland**

Salivary gland below and just in front of the ear.

**PH1617 Retina Nervous Tunic**

The posterior portion of the eyeball.

**PH1618 Salivary Gland**

Glands in the mouth that produce saliva.

**PH1619 Sebaceous Carcinoma, Nose**

A malignant tumour of the nose with sebaceous differentiation.

**PH1620 Squamous Cell Carcinoma, Mouth**

A mouth cancer affecting the squamous cells (thin, flat cells that look like fish scales).

**PH1621 Submaxillary Gland / Mandibular Gland / Submandibular Salivary Gland / Submandibular Gland / Submaxillary Salivary Gland**

A gland inside of and near the lower edge of the jawbone, which discharges saliva into the mouth under the tongue.

**PH1622 Tongue** A large muscle covered in mucous membranes located in the mouth.

**PH1623 Tonsil** Small masses of lymphoid tissue on either side of the throat.

**PH1624 Tonsillitis** Inflammation of the tonsil.

**PH1625 Tooth** Calcified connective tissue embedded in the jawbone.

## **PH 17: Skin Test Kit**

**26 vials**

*The energy patterns of various healthy and diseased tissues, e.g. hair, skin, malignant melanoma, lichen planus, blue nevus, ulcers and kaposi's sarcoma.*

**PH1701 Abscess**

An enclosed collection of pus in tissues, organs, or confined spaces in the body; a sign of infection and is usually swollen and inflamed.

**PH1702 Basal Cell Carcinoma / Rodent Ulcer, Basaloma**

Most common form of the 3 major skin cancers; arises from the basal cells, small round cells found in the lower part (or base) of the epidermis, the outer layer of the skin.

**PH1703 Chondroid Syringoma / Mixed Tumour Of Skin**

A benign tumour of the sweat glands.

**PH1704 Eccrine Spiradenoma**

A benign but usually painful skin tumour composed of two cell types derived from the sweat glands.

**PH1705 Epithelioma, Skin**

An abnormal skin growth; may be benign or malignant.

**PH1706 Hair**

Hair consists of dead, keratinised cells bonded together by extracellular proteins.

**PH1707 Hemangioma, Cavernous & Capillary**

A usually benign tumor made up of blood vessels; typically occurs as a purplish or reddish slightly elevated area of skin.

**PH1708 Herpes, Skin**

Skin showing the effect of the herpes virus.

**PH1709 Hidradenoma, Clear Cell / Eccrine Acrospiroma / Nodular Hidradenoma**

A tumour derived from eccrine sweat glands, composed of glycogen-rich clear cells.

**PH1710 Insect Bite With Acanthosis**

Insect bite with an increase in the thickness of one of the cell layers of the skin.

**PH1711 Kaposi's Sarcoma**

Cancer characterised by the abnormal growth of blood vessels that develop into skin lesions.

**PH1712 Keratoacanthoma**

A non-cancerous, rapidly growing skin tumor that usually occurs on sun-exposed areas of the skin and that can go away without treatment.

**PH1713 Lentigo, Malignant**

A malignant small melanotic spot in the skin in which the formation of pigment is unrelated to exposure to sunlight.

**PH1714 Lichen Planus**

A common skin disease with small, shiny, itchy spots, often accompanied by lesions in the mouth.

**PH1715 Meissner Corpuscle**

Receptors for discriminating touch, located in the skin, especially the finger tips and palms.

**PH1716 Melanoma, Malignant**

One of the 3 major forms of skin cancer, and potentially the most serious; a malignant tumour arising from the melanocytic system of the skin.

**PH1717 Mole, Hairy Pigmented**

An area on the skin (usually dark in color) that contains a cluster of melanocytes, with a hair follicle.

**PH1718 Nevus, Blue**

A small blue or bluish black spot on the skin that is sharply circumscribed, rounded, and flat or slightly raised and is usually benign but often mistaken for a melanoma.

**PH1719 Papilloma, Skin**

Benign skin tumour.

**PH1720 Scalp With Hair**

Skin from the head with hair.

**PH1721 Sebaceous Carcinoma**

Carcinoma of the sebaceous glands, usually occurring as a slow-growing hard yellow nodule on the eyelid.

**PH1722 Skin, Negroid And Caucasian**

Outermost covering of the body.

**PH1723 Skin With Sweat Gland**

Outermost covering of the body with a sweat gland.

**PH1724 Squamous Cell Carcinoma**

One of the 3 major forms of skin cancer affecting the squamous cells (thin, flat cells that look like fish scales).

**PH1725 Ulcer, Granulating**

An ulcer forms when the surface cells die and are cast off; here healing tissue with a translucent, red, velvety appearance is present.

**PH1726 Ulcer, Old Chronic, Healing**

A long-standing ulcer.

# PH 18: Chromosomes Plus Test Kit

26 vials

**24 chromosomes including the X and Y chromosomes, plus DNA and RNA.**

PH 18 01	Chromosome 1
PH 18 02	Chromosome 2
PH 18 03	Chromosome 3
PH 18 04	Chromosome 4
PH 18 05	Chromosome 5
PH 18 06	Chromosome 6
PH 18 07	Chromosome 7
PH 18 08	Chromosome 8
PH 18 09	Chromosome 9
PH 18 10	Chromosome 10
PH 18 11	Chromosome 11
PH 18 12	Chromosome 12
PH 18 13	Chromosome 13
PH 18 14	Chromosome 14
PH 18 15	Chromosome 15
PH 18 16	Chromosome 16
PH 18 17	Chromosome 17
PH 18 18	Chromosome 18
PH 18 19	Chromosome 19
PH 18 20	Chromosome 20
PH 18 21	Chromosome 21
PH 18 22	Chromosome 22
PH 18 23	X Chromosome
PH 18 24	Y Chromosome
PH 18 25	DNA
PH 18 26	RNA

# Periodontal Test Kit

## 35 Vials

*Bacteria, biofilms and nosodes related to periodontal disease.*

*Periodontal disease has a major impact on health. It has been implicated in susceptibility to strokes, heart disease, diabetes and dementia.*

*This kit brings together vials from other kits - bacteria, biofilms, cytokine and also includes some unique vials.*

### **PD 01 Actinomyces Israelii**

Found in the vagina, colon, and mouth. Infection is established first by a breach of the mucosal barrier during various procedures (e.g. dental, and surgical) or pathologies such as diverticulitis; causes actinomycosis (formation of painful abscesses in the mouth, lungs, or gastrointestinal tract).

### **PD 02 Actinomyces Odontolyticus**

Part of the oral flora; also found in dental plaque and in deep dental caries. Causes actinomycosis.

### **PD 03 Actinomyces Viscosus**

Part of the human oral flora, occurring around the teeth, gums and throat in healthy humans. Causes dental caries particularly of the roots of teeth. Can cause abscesses in the mouth, lungs, or the gastro-intestinal tract.

### **PD 04 Actinomycosis, with Actinomyces Viscosus**

An infection with the formation of abscesses in the mouth, lungs, or the gastrointestinal tract. Oral actinomycosis may occur due to trauma such as a tooth extraction or bleeding gums.

### **PD 05 Aggregatibacter Actinomycetemcomitans / Actinobacillus Actinomycetemcomitans**

Part of the human oral flora; also found in severe infections in the oral cavity, mainly the periodontium.

### **PD 06 Borrelia Vincent**

Causes severe ulcerating gingivitis (trench mouth). Typically found in those with poor oral hygiene but can also occur as a result of stress, cigarette smoking and poor nutrition; also can be found in those with serious illnesses.

### **PD 07 Campylobacter Rectus**

Implicated as a pathogen in chronic periodontitis, which can cause bone loss.

### **PD 08 Capnocytophaga Ochracea**

Found in the oral cavity of humans and contributes to early plaque formation on teeth by being a physical intermediate link between several Streptococcus species and Fusobacterium nucleatum.

### **PD 09 Capnocytophaga Sputigena**

Normal inhabitants of the human oral cavity; implicated in periodontal disease.

### **PD 10 Dental Floss: Bacteria, Plaque, Cheek Cells**

### **PD 11 Dental Floss: Bacteria, Plaque, Food**

### **PD 12 Dental Plaque With Bacilli Biofilm**

### **PD 13 Dental Plaque With Bacteria and Yeast**

### **PD 14 Dental Plaque With Cocci Biofilm**

### **PD 15 Dental Plaque With Fungal Hyphae and Bacteria**

### **PD 16 Eikenella Corrodens / Bacteroides Corrodens**

A commensal bacteria of the human mouth and upper respiratory tract.

### **PD 17 Enterococcus Faecalis / Streptococcus Faecalis**

Can cause life-threatening infections in humans, especially in the hospital environment. Frequently found in root canal-treated teeth. Can cause endocarditis and bacteremia; also can be responsible for urinary tract infections, meningitis, and other infections. Among the main constituents of some probiotic food supplements.

**PD 18 Eubacterium Yurii**

Causes periodontal disease.

**PD 19 Fusobacterium Nucleatum**

Found in the mouth and upper respiratory tract. A key component of dental plaque. Possible role in periodontal disease and colon cancer. Occasional cause of abscesses and blood infections.

**PD 20 Gingiva**

Gums.

**PD 21 Gingivitis, Acute**

Inflammation of the gums, with redness, swelling and bleeding of the gums.

**PD 22 Interleukin-8**

Interleukins are cytokines produced by the body as part of the immune system. This particular one often associated with inflammation (e.g. in gingivitis and psoriasis).

**PD 23 Peptostreptococcus Sp.**

Commensal organisms in humans, living predominantly in the mouth, skin, gastrointestinal, vagina and urinary tracts, and compose a portion of the bacterial gut flora

**PD 24 Periodontal Ligament Fibres**

A group of specialised connective tissue fibres that attach a tooth to the alveolar bone within which it sits.

**PD 25 Periodontitis caused by Porphyromonas Gingivalis****PD 26 Periodontitis caused by Prevotella Intermedia****PD 27 Periodontitis caused by Prevotella Melaninogenica****PD 28 Porphyromonas Gingivalis / Bacteroides Gingivalis**

Bacteria that is part of the normal flora of the mouth, intestine and urogenital tract. Found in periodontal lesions and associated with adult gingivitis, periodontal disease and mouth abscesses; could be a risk factor for oesophageal cancer.

**PD 29 Prevotella Intermedia / Bacteroides Intermedia / Bacteroides Melaninogenicu**

Bacteria involved in periodontal infections, including gingivitis and periodontitis.

**PD 30 Serratia Marcescens / Bacterium Prodigosum**

Found on the sub-gingival biofilm of teeth. Involved in eye infections. Commonly found in the respiratory and urinary tracts of hospitalised adults and in the gastro-intestinal system of children. May cause pneumonia and urinary tract infections. Often found growing in bathrooms as a pink discoloration and slimy film.

**PD 31 Streptococcus Mutans**

Commonly found in the human oral cavity and is a significant contributor to tooth decay.

**PD 32 Streptococcus Salivarius**

The principal commensal bacterium of the oral cavity and a normal inhabitant of the upper respiratory tract. The first bacterium that colonises dental plaque, creating favourable conditions for other bacteria.

**PD 33 Streptococcus Sanguinis / Streptococcus Sanguis**

A normal inhabitant of the healthy mouth, particularly found in dental plaque, where it modifies the environment to make it less hospitable for other strains of Streptococcus that cause cavities, such as Streptococcus mutans. The most common cause of subacute bacterial endocarditis.

**PD 34 Treponema Denticola**

Part of the microbial community within the oral cavity ; associated with the incidence and severity of human periodontal disease. Having elevated T. denticola levels in the mouth is considered one of the main causes of periodontitis.

**PD 35 Veillonella**

Part of the microbial community within the mouth and intestine. Very occasionally implicated in cases of osteomyelitis and endocarditis.

# Personal Care Test Kit

## 31 vials

*The energy patterns of common ingredients in personal care products, including sodium lauryl sulphate (SLS), aloe vera, isopropyl myristate, propyl gallate, propylene glycol, cocoa butter and 3 parabens.*

### PC01 **Almond Oil (sweet)**

Used as a carrier oil in aromatherapy, and in some personal care products.

### PC02 **Aloe Vera Gel**

Used in personal care products and cosmetics; also in some creams and gels to treat eczema, burns, etc.; can be taken internally to help digestive problems.

### PC03 **Apricot Kernel Oil**

Cheaper than almond oil, so used more often in personal care products to soften skin; used as a carrier oil in aromatherapy.

### PC04 **Avocado Oil**

Used as a food oil and in personal care products; used as a carrier oil in aromatherapy.

### PC05 **Beeswax (unbleached)**

Used to make fine candles, cosmetics, shoe polish and pharmaceuticals; also used to make bone wax, which is used to stop bone bleeding during surgical procedures (once applied it remains in place in the body; some people have experienced adverse reactions).

### PC06 **Butyl Paraben / p-Hydroxybenzoic acid n-butyl ester / Butyl 4-hydroxybenzoate**

A widely used preservative in creams, cosmetics, food and beverages; typical products include hand creams, body lotions, tanning lotions, shampoos, skin cleansers, skin toners, moisturisers, hair conditioners, hair dyes, eye shadows, foundations and after-shaves.

### PC07 **Cocoa Butter / Theobroma Cacao**

Used to make moisturisers, soaps, cosmetics and lip balms; used to make chocolate including white chocolate.

### PC08 **Coconut Oil / Cocos Nucifera**

Used in skin moisturisers and soap; in India and Sri Lanka used to style hair; used in vegetable oil and manufacture of processed foods.

### PC09 **Dehydroacetic Acid**

A preservative used in personal care products, medicinal creams, cosmetics and foods.

### PC10 **Diazolidinyl Urea**

Used as a preservative in cosmetics, skin care products, shampoos and conditioners, bubble baths, baby wipes and household detergents.

### PC11 **Dibutyl Phthalate / Di-n-butyl phthalate / n-Butyl phthalate / DBP / Phthalic acid dibutyl ester**

Used as a solvent for dyes, in cosmetics (particularly nail polish), food packaging, perfumes, skin emollients, hair spray and insect repellents; a commonly used plasticiser (makes plastics more flexible and easier to handle).

### PC12 **Hydroxyethylcellulose**

Found in personal care products (e.g. Hair conditioners, body toning creams, mascaras and shaving creams); also used in dry-eye medication and vaginal creams and gels.

### PC13 **Imidazolidinyl Urea**

A preservative found in skin, body and hair products, antiperspirants and nail polishes.

### PC14 **Isopropyl Myristate**

Found in hand and body lotions, moisturisers, deodorants, body sprays, pre-shave lotions, mascara, after-shave and medicinal creams; also used as a non-pesticide treatment for hair lice.

### PC15 **Jobba Oil**

Extracted from a shrub; used in hair care products, cosmetics and skin care preparations; used as a carrier oil in aromatherapy.

### PC16 **Methyl Paraben**

A widely used preservative in creams, cosmetics, food and beverages; typical products include hand creams,



body lotions, tanning lotions, shampoos, skin cleansers, skin toners, moisturisers, hair conditioners, hair dyes, eye shadows, foundations and after-shaves.

#### **PC17 Nitrosamine Mix**

Found in some personal care products; not intentionally added, but are formed accidentally during manufacture or storage (levels increase over time); research shows over half personal care products and cosmetics have detectable levels; also formed when nitrates (usually from food or drinking water) react with amines naturally present in food and in the human body; also in tobacco smoke

#### **PC18 Octyl Dodecanol**

A common ingredient in cosmetics, hair conditioners, nail care products, deodorants, vaginal creams, etc.

#### **PC19 Oxybenzone / 2-Hydroxy-4-methoxybenzophenone Absorbs UV rays; used in sunscreens, skin care and lip balms.**

#### **PC20 Palm Oil**

Used in the manufacture of soap, cosmetics, detergents, candles and printing ink; used as a cooking oil, in baby formulas, to make margarine, and in many processed foods; used in production of biodiesel fuel.

#### **PC21 Paraphenylenediamine /p-phenylenediamine 1,4-Benzenediamine / 1,4-Diaminobenzene / 1,4-Phenylenediamine**

Widely used as a permanent hair dye (when a reaction to hair dye occurs, this is the most likely culprit); may also be found in dark coloured cosmetics, temporary tattoos, photographic developer and lithography plates, photocopying and printing inks, black rubber, oils, greases and gasoline; also found in textile or fur dyes.

#### **PC22 Poly(ethylene glycol) Distearate**

Widely used to make cosmetics opaque; used to make soap and medicinal ointments.

#### **PC23 Propyl Gallate / E310**

An antioxidant used in personal care products, cosmetics, sausages, margarine, and chewing gum; used in manufacture of paper packaging that will be in contact with food.

#### **PC24 Propyl Paraben / 4-Hydroxybenzoic acid propyl ester / Propyl 4-hydroxybenzoate**

A widely used preservative in creams, cosmetics, food and beverages; typical products include hand creams, body lotions, tanning lotions, shampoos, skin cleansers, skin toners, moisturisers, hair conditioners, hair dyes, eye shadows, foundations and after-shaves.

#### **PC25 Propylene Glycol /PG / Propan-1,2-diol/ Propylenglycol**

Used in the preparation of perfumes, in personal care products (e.g. Cleansers, skin creams, toothpastes, shampoos, hair conditioners, hair dyes), and cosmetics, and in drugs; used as a preservative in some food (e.g. Ice cream and sour cream); used as an anti-freeze, a solvent and a mould inhibitor; also used in artificial smoke and fog machines.

#### **PC26 Resorcinol / 1,3-Benzenediol /Resorcin**

Used in hair dyes, anti-dandruff shampoos and sunscreens; used to treat acne and skin complaints; also used to dye fur and leather and in wood adhesives.

#### **PC27 Shea Butter / Butyrospermium Parkii**

Widely used in cosmetics as a moisturiser and an emollient; used as a cooking oil in West Africa, as well as sometimes being used in the chocolate industry as a substitute for cocoa butter.

#### **PC28 Sodium Lauryl Sulphate / SLS / Sodium dodecyl sulfate / SDS**

Used in personal care products such as toothpastes, shampoos, shaving foams and bubble baths for its thickening effect and its ability to create a lather.

#### **PC29 Stearic Acid / Octadecanoic Acid**

Found in personal care products (e.g. Moisturisers, hand creams, body lotions, tanning lotions, cream soaps, eye shadows, mascaras, hair dyes, foundation, and shaving foams); used as a lubricant in nutritional and medicinal tablets.

#### **PC30 (+)-a-Tocopherol Acetate / Vitamin E Acetate**

Found in face wash creams, hair conditioners, hand creams, foundation, eye shadows, lipsticks, and similar products.

#### **PC31 Wheatgerm Oil**

Used in natural personal care products, and some medicinal creams.

# Pesticides 1 Test Kit

## 25 vials

*The energy patterns of various pesticides including lindane, parathion, paraquat, heptachlor, campheclor etc.*

### PE1 **2,4,5-T /Dioxin / CAS 93-76-5**

Organochloride; on the EU List of 129; International Pesticide Network wishes to stop use; use being phased out; possibly carcinogenic to humans; herbicide; component of 'Agent Orange' (defoliant) in Vietnam war, during this war the US military dropped 40 million kilogram on Vietnam; probably carcinogenic in humans; still in use from railway companies as a herbicide on the railway.

### PE2 **Aldicarb / Temik/ CAS 116-06-3**

International Pesticide Network wishes to stop use; WHO class 1a; used in cultivation of cotton, peanuts, cucumber, watermelons, potatoes, soya beans and ornamental plants; disturbs hormone equilibrium in rats.

### PE3 **Amitrole /Amino-Triazol / CAS 61-82-5**

Herbicide, water-soluble, not fat-soluble; used in cultivation of fruits and ornamental plants; low acute and chronic toxicity, but probably carcinogenic for humans.

### PE4 **Atrazine / CAS 1912-24-9**

Organochloride; on UK Red List; possibly carcinogenic to humans; herbicide; non-selective herbicide, low solubility in water, forbidden in many countries in other countries used in cultivation of sugar cane, pineapple and timber; probably carcinogenic for humans; hormonal effects are similar to oestrogen.

### PE5 **Bromophos / CAS 4824-78-6**

WHO class 1b; organic phosphate, WHO class 1b; low to medium toxicity.

### PE6 **Camphechlor / Toxaphene / CAS 8001-35-2**

Banned in EU; International Pesticide Network wishes to stop use; used in cultivation of cotton, soybeans, peanuts; most probably carcinogenic, liver damage through long term exposure to higher doses.

### PE7 **Captan / CAS 133-06-2**

Non-systemic fungicide, used against fungus on fruits, ornamental plants and tomatoes; also used by amateur gardeners; low acute toxicity for humans but probably carcinogenic.

### PE8 **Chlormequat / CCC / CAS 999-81-5**

Plant growth regulator; insecticide; used in cultivation of grains, grapes and pears; probably not carcinogenic.

### PE9 **Deiquat / CAS 2764-72-9**

Non-selective herbicide; plant growth regulator; used in general and specifically for sugar cane; medium toxicity for humans; kidney damage and eye cataracts through long term exposure.

### PE10 **Diazinon / CAS 33-41-5**

Organophosphate; insecticide; used as a sheep dip, particularly until 1990's when synthetic pyrethroids ( e.g. Cypermethrin and flumethrin) were introduced; widely used for pest control in cultivation of food and ornamental plants; is contained in some agents for indoor use; low to middle acute toxicity; potential mutagen; in human body it breaks down into diazoxone, which is a strong enzyme inhibitor.

### PE11 **Dichlorvos / CAS 62-73-7**

Organophosphate, cholinesterase inhibitor, insecticide; used in storage rooms against flies, mites, spiders, etc., and in plant cultivation; used as a treatment against worms in humans and animals; on UK Red List; WHO class 1b; highly toxic by inhalation, skin contact and ingesting; usually quickly excreted by the body; mutagenic and probably carcinogenic.

### PE12 **Dieldrin / CAS 60-57-1**

Organochloride; banned in EU; WHO class 1b; insecticide; widely used from 1950 until early 70's against termites and beetles, for treatment of seeds, against mosquitos and the Tse-Tse-fly, on sheep, as a wool impregnating agent against moths and also as a wood impregnation; chronic effects: liver damage, disturbed immune system; carcinogenic in animal test; stored in fat tissue, difficult for the body to excrete or break down.

### PE13 **DNOC / Dinitroresol / CAS 534-52-1**

WHO class 1b; highly toxic; damages liver, kidneys and nervous system; leads to hyperthermia, tachycardia, dehydration and toxic psychosis.

**PE14 Endosulfan / CAS 959-98-8**

Insecticide and acaricide; chlorinated carbohydron, insecticide, acaricide; fat-soluble; not allowed in Germany; on UK Red List; contact poison for a wide range of insects and mites; high acute toxicity for humans; damage on kidneys, liver, blood chemistry and parathyroid; probably mutagenic and almost certainly carcinogenic.

**PE15 Heptachlor / CAS 76-44-8**

Organochloride; banned in EU; chlorinated carbohydron, insecticide, fat-soluble; high acute toxicity for humans; stored in fat tissue; affects nerves; symptoms of acute or chronic toxicity include irritability, overstimulated salivation, lethargy, vertigo, dazed feeling, difficult breathing, muscle spasm and tremble, infertility, disturbed female cycle, liver damage, kidney damage, increased number of red blood cells, mutagenic, carcinogenic; affects steroid metabolism.

**PE16 Hexachlorbenzene / HCB / CAS 118-74-1**

Organochloride; chlorinated carbohydron; fungicide; banned in EU; WHO class 1a; low acute toxicity; effects of higher doses include tremor, paralysis, weakness; probably carcinogenic for humans; speed of breaking down of hormones in the body is changed.

**PE17 Lindane / CAS 58-89-9**

Organochloride; pesticide; no longer produced in USA; used in cultivation of sugar beet; highly toxic for humans; stimulates the central nerve system with symptoms like mental and motor regression, nerve overactivity, failure of breathing, lung oedema and dermatitis; carcinogenic for humans; change of testicles in laboratory animals.

**PE18 Maneb / CAS 12427-38-2**

Fungicide; used in cultivation, transport and storage of plants and seeds; medium acute toxicity; possible chronic effects include dermatitis, tremor, weakness, depression, paralysis, mal-digestion, co-ordination problems; affected organs are thyroid, kidney and heart; disturbs hormone regulation; cooking treated vegetables probably increases carcinogenic effect.

**PE19 MCPA / Metaxon / CAS 94-74-6**

Chlorinated carbohydron; systemic herbicide particularly for grain and grass; low acute toxicity; long term effects in animal experiments include growth obstruction, kidney damage, disturbed reproduction; in humans: muscle weakness, reversible anemia, stomach problems, slight liver problems.

**PE20 Methoxychlor / CAS 72-43-5**

Organochloride; insecticide; not allowed in Germany; various uses in agriculture, and by amateurs; high increase in use since ban of DDT; relatively low toxicity and short retention time in biological systems; in animal experiment loss of weight and growth disturbance found on long term exposure.

**PE21 Paraquat / CAS 2074-50-2**

Herbicide; banned in some Scandinavian countries; highly toxic for humans; affects lungs, kidney and liver, wide range of symptoms, possibly carcinogenic for humans; International Pesticide Network wishes to stop use.

**PE22 Parathion / CAS 56-38-2**

Organophosphate; insecticide and acaricide; under consideration for the UK Red List; WHO class 1a; used in cultivation and storage of grain; highly toxic for humans; possible symptoms from acute exposure include breathing problems, nose bleeding, coughing, shortness of breath; probably carcinogenic; disturbs hormone balance.

**PE23 Pentachlorophenol / PCP / CAS 87-86-5**

Organochloride; insecticide; fungicide; WHO class 1b; banned in Germany since 1989, but many residual pollution in buildings and imported leather goods and textiles; mainly used to protect construction wood against insects and fungus, but also in paper and clothing industries; very toxic for humans; symptoms from acute exposure include sweating, dehydration, loss of appetite, loss of weight, vertigo, uncontrolled movements, coma; chronic exposure may result in stomach-ache, vertigo, fever, breathing problems.

**PE24 Pyrethrum / CAS 8003-34-7**

Natural insecticide from the chrysanthemum plant; used in sprays against lice, mosquitos (evaporation papers), flies, cockroaches, also in storage of grain, in poultry farming and on cats and dogs.

**PE25 Thomasmehl**

By-product in iron smelting, used as a fertiliser.

# Pesticides 2 Test Kit

## 25 vials

*More pesticides including some mixed vials giving you access to a lot of different pesticides and herbicides.  
Also the 4 pesticides that make up DDT.*

### PE26 Herbicides Mix A

Atrazine, Bromacil, Butylate, Cycloate, S-Ethyl-N,N-dipropylthiocarbamate, Hexazinone, Isopropalin, Metribuzin, Molinate, Oxyfluorfen, Pebulat, Terbacil, Trifluralin.

### PE27 Herbicides Mix B

Benfluralin, Metolachlor, Oxadiazon, Profluralin, Propachlor, Propazine, Prowl (Pendimethaline), Simazine, Vernolat.

### PE28 Pesticides Mix A

a-BHC, 4,4'-DDT, Decachlorobiphenyl, Dieldrin, a-Endosulfan, Endrin, Heptachlor, Lindane, Methoxychlor, 2,4,5,6-Tetrachloro-m-xylene.

### PE29 Pesticides Mix B

Aldrin,  $\beta$ -BHC, d-BHC, a-Chlordane,  $\gamma$ -Chlordane, 1,1-Dichloro-2,2-bis(4-chlorophenyl)ethene, Decachlorobiphenyl,  $\beta$ -Endosulfan, Endosulfan sulfate, Endrin aldehyde, Endrin ketone, Heptachlor exo-epoxide, 2,4,5,6-Tetrachloro-m-xylene.

### PE30 Pesticides Mix C

Aldrin, a-Benzene Hexachloride,  $\beta$ -a-Benzene Hexachloride, d-a-Benzene Hexachloride, 1,1-Dichloro-2,2-bis(4-chlorophenyl)ethane, 1,1-Dichloro-2,2-bis(4-chlorophenyl)ethene, 4,4'-DDT, Dieldrin, a-Endosulfan,  $\beta$ -Endosulfan, Endosulfan sulfate, Endrin, Endrin aldehyde, Heptachlor, Heptachlor exo-epoxide, Lindane.

### PE31 Pesticides Mix D

Azinphos-methyl, Chlorpyrifos, Dichlorvos, Disulfoton, Ethoprophos, Fenchlorphos, Parathion-methyl, Prothiofos.

### PE32 Carbaryl

CAS 63-25-2

Insecticide; the third most-used insecticide in the United States for home gardens, commercial agriculture, and forestry and rangeland protection.

### PE33 Carbenazim

CAS 10605-21-7

One of the most common residues found in food in the European Community.

### PE34 Chlorothalonil

CAS 1897-45-6

Fungicide used to control mould, mildew, bacteria, algae. The third most used fungicide in the US (for peanuts, potatoes and tomatoes).

### PE35 Chlorpyrifos

CAS 2921-88-2

One of the most widely used organophosphate insecticides. The crops with the most intense use are cotton, corn, almonds, and fruit trees including oranges and apples. Banned in U.S. households. Still widely used throughout the agricultural ind. Is associated with early childhood developmental delays, according to a study by at Columbia University's Mailman School of Public Health. U.S. EPA)and the U.S. Department of Housing collected samples (in 2009) with surface wipes from U.S. kitchen floors. Chlorpyrifos on 78%.

### PE36 Cyprodinil

CAS 121552-61-2

Fungicide. One of the most common residues found in food in the European Community.

### PE37 2,4-D / 2,4-Dichlorophenoxyacetic Acid

CAS 94-75-7

The most widely used herbicide in the world.

### PE38 4,4'-DDD / TDE / 1,1-Dichloro-2,2-bis(4-chlorophenyl)ethane

CAS 72-54-8

A constituent of commercial DDT and a breakdown product of DDT. Due to its stability in fat, DDE is rarely excreted from the body, and body levels tend to increase throughout life. Substantial levels found in breast milk and in animal fat.

**PE39 4,4'-DDE / 1,1-Dichloro-2,2-bis(4-chlorophenyl)ethene**

CAS 72-55-9

A constituent of commercial DDT and a breakdown product of DDT. Due to its stability in fat, DDE is rarely excreted from the body, and body levels tend to increase throughout life. Substantial levels found in breast milk and in animal fat. An increased risk of testicular germ cell tumours. Has been linked to diabetes.

DDT (This is not a vial in this kit but all the constituents of commercial DDT are.)

Commercial DDT is banned in most countries but is a persistent pollutant in the environment. It is a mixture of several closely-related compounds. 4,4'-DDT (77%) and 2,4'-DDT (15%) are the main chemicals with Dichlorodiphenyldichloroethylene (DDE) and dichlorodiphenyldichloroethane (DDD) making up the balance. DDE and DDD are also the major metabolites and breakdown products in the environment. All four are in this kit.

**PE40 2,4'-DDT**

CAS 789-02-6

Insecticide. Part of commercial DDT. Evidence of impaired fertility from animal studies. Banned in most countries but still found in fat tissue (both human and in animals/fish we eat) and breast milk.

**PE41 4,4'-DDT / 1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane / 1,1-Bis(4-chlorophenyl)-2,2,2-trichloroethane**

CAS 50-29-3

Insecticide. Part of commercial DDT. Evidence of impaired fertility from animal studies. Banned in most countries but still found in fat tissue (both human and in animals/fish we eat) and breast milk.

**PE42 Endrin 72-20-8 Insecticide; global ban taking affect mid 2012, but persistent in the environment. Endocrine disrupter and possibly carcinogenic.**

**PE43 Glyphosate /Roundup**

CAS 1071-83-6

Most used herbicide in USA. Used by public as well as in agriculture.

**PE44 Imazalil**

CAS 35554-44-0

One of the most common residues found in food in the European Community.

**PE45 Imidacloprid**

CAS 138261-41-3

One of the most widely used insecticides. Available in products for home use.

**PE46 Malathion**

CAS 121-75-5

Insecticide; studies have shown that children with higher levels of malathion in their urine seem to be at an increased risk of attention deficit hyperactivity disorder.

**PE47 Metolachlor**

CAS 51218-45-2

Evidence of it in ground and surface water. Concentrations have been found in fish.

**PE48 Parathion-Methyl**

CAS 298-00-0

Insecticide. Used to control chewing and sucking insects in a wide range of crops, including cereals, fruit, vines, vegetables, ornamentals, cotton and field crops. Residues are regularly detected in a range of fruit and vegetables.

**PE49 Piperonyl Butoxide**

CAS 51-03-6

Combined with other pesticides, products with piperonyl butoxide are often used to target mosquitoes, ants, worms, beetles, mites, flies, gnats, spiders, weevils, caterpillars, grubs, moths, ticks, lice, wasps, aphids, midges. U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) collected samples (in 2009) with surface wipes from U.S. kitchen floors. Pipeonyl butoxide on 52%.

**PE50 Trifluralin**

CAS 1582-09-8

One of the most widely used herbicides used to control grass and weeds.

# Pesticides 3 Test Kit

## 25 vials

*More pesticides, including some used in the home and garden. Many of these pesticides have been shown on occasions to exceed their standard for maximum residue level in food within the European Community. There is no reason to believe the results would be different in other countries.*

### PE51 **Acephate**

CAS 30560-19-1

Used primarily for control of aphids, including resistant species, in vegetables (e.g. potatoes, carrots, greenhouse tomatoes, and lettuce) and in horticulture (e.g. on roses and greenhouse ornamentals).

### PE52 **Acetamiprid**

CAS 135410-20-7

Crops such as leafy vegetables, citrus fruits, apples, grapes, cherry, cotton and ornamental plants. Available in products for home use.

### PE53 **Aldrin**

CAS 309-00-2

Banned by the Stockholm Convention on Persistent Organic Pollutants. Although banned still found in fat tissue (both human and in animals/fish we eat) and breast milk. Aldrin exposure increases the likelihood of diabetes.

### PE54 **Azinphos-Methyl /4, 4' -dichlorodiphenyltrichloroethane /4, 4' -dichlorodiphenyltrichloroethane**

CAS 86-50-0

Used on nut trees, vegetable crops, and fruit trees. Has been linked to health problems in framers who use it.

### PE55 **Chlordane**

CAS 57-74-9

Banned by the Stockholm Convention on Persistent Organic Pollutants. Found in breast milk. U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) collected samples (in 2009) with surface wipes from U.S. kitchen floors. Chlordane on 74%.

### PE56 **Chloroprotham**

CAS 101-21-3

A plant growth regulator and herbicide. Used to control potato sprouting, and on beans, blueberries, cranberries, carrots, onions, spinach, sugar beets, tomatoes, safflower, soybeans, etc.

### PE57 **Clopyralid**

CAS 1702-17-6

Used for control of broadleaf weeds, especially thistles and clovers. Was widely used in USA for weed control in lawns until prohibited in 1999.

### PE58 **Cypermethrin**

CAS 52315-07-8

An insecticide in large-scale commercial agricultural applications as well as in consumer products for domestic purposes. Found in many household ant and cockroach killers. U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) collected samples (in 2009) with surface wipes from U.S. kitchen floors. Cypermethrin on 46%.

### PE59 **Dimethoate**

CAS 60-51-5

Widely used insecticide.

### PE60 **Diphenylamine**

CAS 122-39-4

Used on apples pre and post harvest.

### PE61 **Endosulfan Sulfate**

CAS 1031-07-8

The primary breakdown product of the insecticide endosulfan.



**PE62 Fenitrothion**

CAS 122-14-5

Insecticide used on rice, cereals, fruits, vegetables, stored grains, cotton, to control insects in forests and for fly, mosquito, and cockroach control in public health programs.

**PE63 Fipronil**

CAS 120068-37-3

Insecticide. U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) collected samples (in 2009) with surface wipes from U.S. kitchen floors. Fipronil on 40%.

**PE64 Folpet**

CAS 133-07-3

Used on berries, apples, flowers, ornamentals, fruits and vegetables, and for seed- and plant- bed treatment. Also used as a fungicide in paints and plastics, and for treatment of internal and external structural surfaces of buildings

**PE65 Hexazinone**

CAS 51235-04-2

Herbicide used on grasses and broadleaf and woody plants.

**PE66 Iprodione**

CAS 36734-19-7

Fungicide used on fruits, vegetables and on lawns.

**PE67 Methamidophos**

CAS 10265-92-6

Used on broccoli, Brussel sprouts, cauliflower, grapes, celery, sugar beets, cotton, tobacco, rice and potatoes.

**PE68 Mirex**

CAS 2385-85-5

Banned by the Stockholm Convention on Persistent Organic Pollutants. Although banned still found in fat tissue (both human and in animals/fish we eat) and breast milk.

**PE69 Omethoate**

CAS 1113-02-6

Used to control insects and mites in horticulture and agriculture, as well as in the home garden.

**PE70 Permethrin**

CAS 52645-53-1

U.S. Environmental Protection Agency (EPA) and the U.S. Department of Housing and Urban Development (HUD) collected samples (in 2009) with surface wipes from U.S. kitchen floors. The most frequently detected pesticide was permethrin (89 percent). Included in creams (Nix, Lyclear)for scabies. US military uniforms and mosquito nets may be impregnated with this. May be in head lice treatment. May be carcinogenic.

**PE71 Phosmet**

CAS 732-11-6

Mainly used on apple trees for control of codling moth, though it is also used on a wide range of fruit crops, ornamentals, and vines for the control of aphids, suckers, mites, and fruit flies.

**PE72 Simazin**

CAS 122-34-9

Herbicide used to control broad-leaved weeds and annual grasses.

**PE73 Tetrachlorvinphos**

CAS 22248-79-9

Organophosphate.

**PE74 Thiacloprid / Provado Ultimate Bug Killer / Baby Bio House Plant Insecticide**

CAS 111988-49-9

An insecticide particularly for aphids and white fly. Available in products for home use.

**PE75 Thiamethoxam**

CAS 153719-23-4

An insecticide effective against aphids, beetles, termites, etc. Available in products for home use.

# Pollens, Dusts & Moulds 1 Test Kit

## 22 vials

*The energy patterns of tree pollens, weed pollens, grass pollens, house dust, tobacco smoke, pet hair, moulds etc.*

### PO1 **Tree Pollen 1**

Alder, hazel, lilac, plane, elm, poplar, willow.

### PO2 **Tree Pollen 2**

Birch, ash, jasmine, elder, beech, privet, robinia, oak, lime.

### PO3 **Grain Pollen**

Oats, barley, wheat, meadow foxtail, sweet vernal grass, couch grass, smooth-stalked meadow grass.

### PO5 **Grass Pollen**

Corn, redtop grass (agrostis) English rye grass, brome, dogstail, meadow fescue, meadow soft grass timothy

### PO5a **Hazel Nut Pollen**

### PO6 **House Dust**

Dust taken from various places in the house.

### PO8 **Pet Hair**

Dog, cat, rabbit, horse.

### PO8a **Dog Hair**

### PO8b **Cat Hair**

### PO10 **Farming Dust**

Animal hair, animal sweat, horn, stable dust, hay, etc.

### PO11 **Farming Animals' Hair**

Cow, pig, sheep, goat (hairs, bristle, wool).

### PO11a **Horse Hair**

### PO11b **Cattle Hair**

### PO11c **Sheep Wool**

### PO12 **Moulds Mix 1**

Alternaria tenuis, Botrytis cinerea, Cladosporium sp., Curvularia sp., Fusarium sp., Helminthosporium hal.

### PO13 **Moulds Mix 2**

Aspergillus sp., Mucor mucedo, Penicillium sp., Rhizopus nigricans, Pullularia pullulans, Serpula lacrymans..

### PO14 **Bedroom Dust**

Dust taken from the bedroom.

### PO15 **Tobacco Smoke**

### PO17 **Carpet**

### PO18 **Sawdust (Various)**

### PO19 **Weed Pollen**

Hops, dandelion, plantain, common mugwort, white goosefoot, glasswort, goldenrod.

### PO20 **Household Dust**

Dust taken from the living area of the house.

# Pollens, Dusts & Moulds 2 Test Kit

## 28 vials

*The energy patterns of more pollens, dusts & moulds with the addition of fabrics.*

### **PO23 Air Pollution, City**

Containing vehicle exhaust fumes, soot, pollens, moulds, dust of various types including from industries which may be situated many miles away, volcanic dust, etc.

### **PO24 Angora Wool**

Wool from the angora rabbit.

### **PO25 Asbestos**

Produced during building construction; in a study in New York of 3000 autopsies half had asbestos particles in their lungs.

### **PO26 Cladosporium Herbarum**

One of the most common airborne moulds; common on windowsills and painted walls; most common mould outdoors; often involved in asthma; world wide distribution; spores are particularly prevalent in Europe in June.

### **PO27 Clay**

Found in crockery, paper and board, as a coating on fertiliser pellets, in some rubbers (both synthetic and natural) and plastics, in household paint, crayons, pencils, toothpaste and cosmetics; also known as kaolin.

### **PO28 Fly Ash & Soot**

Produced by incinerators, forest fires, fires in the home and garden; may travel many miles.

### **PO29 Guinea Pig Hair**

### **PO30 Hemp, Italian**

Some clothing and some traditional ropes.

### **PO31 Jute**

Made from a plant grown in Asia; used as a backing for carpets, sacks for carrying food grain, fertilisers and cement.

### **PO32 Linen / Flax**

Made from the flax plant; the by-products of linen production are processed into a pulp used for banknotes or fibreboard.

### **PO33 Methane**

One of the greenhouse gases; main sources are coal mining, landfill, wetlands, poor management of manure, rice paddies and cattle.

### **PO34 Mohair Wool**

Wool from the angora goat.

### **PO35 Moulds Various**

*Alternaria alternata*, *aspergillus niger*, *aspergillus fumigatus*., *fusarium* sap., *merulius lacrimans*, *mucor mucedo*, *penicillin*, *rhizopus nigricans*, *sporobolomyces*, *trichophytum rubrum*, *ustilago*, *cladosporium herbarum*.

### **PO36 Newsprint**

### **PO37 Ozone**

Vehicles and industries are the major source of ground-level ozone gas emissions; also produced by photocopiers, etc. Occurs naturally in the upper layers of the atmosphere and shields the earth from the harmful ultraviolet rays of the sun.

### **PO38 Pollens & Grasses Various 1**

Includes alder, beech, silver birch, elm, hazel, plane, poplar, willow, broom, cocksfoot, dog's tail, false oat, meadow foxtail, rye, timothy, sweet vernal, ragweed, mugwort, rape, heather, fat hen, plantain, buttercup, nettle, etc.

***Pollens Kit 2 Continued Over.....***

**PO39 Pollens Grass, Trees & Flowers 2**

Bent, meadow foxtail, sweet vernal grass, false oat, meadow brome, crested dog's tail, cocksfoot, meadow fescue, common velvet grass, perennial rye grass, timothy grass, annual meadow grass, alder silver birch, hazel, beech, ash, London plane, aspen, oak, white willow, short ragweed, mugwort, rapeseed, heather, fat hen, plantain, buttercup and nettle.

**PO40 Pollens Various 3**

Lily, amaryllis, dwarf sunflower, ragweed, saltbush, chrysanthemum, corn, dahlia, ash, hibiscus, tiger lily, tulip tree, apple, tobacco, rose, African violet, willow, dandelion, pine, cherry, snap dragon, cat tail.

**PO41 Printer & Photocopying Toner**

A mixture of plastic particles (e.g. Styrene acrylate copolymer and polypropylene), iron and pigments, such as carbon black, and paraffin wax.

**PO42 Quartz Sand**

From mining operations, sandblasting, industrial grinding, and deserts and sand dunes, etc.

**PO43 Ragweed, Giant & Short/Normal**

One of the main hay fever pollens in the USA from mid August to November, peaking in September; these two varieties of ragweed cause the most problems; also found in the Rhône valley in France and some areas of Eastern Europe.

**PO44 Ramie**

Made from Chinese grass or rhea, a plant with fibrous leaves; used mainly with other fibres as a blend in fabrics resembling linen.

**PO45 Rapeseed Pollen / Canola Pollen**

A problem for many people particularly in the UK; known as canola in North America.

**PO46 Rayon, Acetate**

A fabric made from cellulose acetate fibres; resistant to staining and creasing.

**PO47 Rayon, Viscose**

A fabric manufactured by treating cellulose with carbon disulfide, caustic soda, and sulphuric acid; used in clothing, furnishing and carpets; the most important of the rayons.

**PO48 Rust, Iron**

The common name for an oxide of iron; occurs when iron is exposed to water and air; a lot of water supplies are contaminated by it, especially when main pipes are being repaired.

**PO49 Sulphuric Acid / Sulfuric Acid**

Produced by burning fuels and volcanoes; one of the components of acid rain; used in include fertiliser manufacturing, ore processing, chemical synthesis, waste water processing and oil refining.

**PO50 Volcanic Dust**

From two volcanoes: Halemaumau in Hawaii and Mt. St Helens; may travel thousands of mile.

# Protozoa Test Kit

37 vials

**Protozoa are the simplest, most primitive type of animal, consisting of a single cell.  
They are resistant to antibiotics.**

***A large number of the vials are unique to this kit, but the kit contains some protozoa that are also in the***

***Fungus 1 Test Kit and Parasite 2 Test Kit. In addition the three most medically significant protozoa from the Lyme Plus test kit are included here.***

## **PZ 01 Acanthamoeba Sp., Trophozoites**

Inhabit a variety of air, soil, and water environments; cause granulomatous amoebic encephalitis and amoebic keratitis and have been associated with cutaneous lesions and sinusitis.

## **PZ 02 Babesia Bigemina**

North and South America, Southern Europe, Africa, Asia and Australia. Causes Babesiosis /Piroplasmosis, also known as Texas cattle fever, redwater fever, tick fever, and Nantucket fever. Gives malaria-like symptoms. As a result, malaria is a common misdiagnosis for the disease; for 25% of cases in adults and half of cases in children, the disease is asymptomatic or mild with flu-like symptoms.

## **PZ 03 Babesia Divergens**

Has been found in Turkey, Spain, Canary Islands, Tunisia, Austria, France and Norway. Causes Babesiosis / Piroplasmosis; infections have a much higher fatality rate (42%) than with other strains and present with the most severe symptoms: haemoglobinuria followed by jaundice, a persistently high fever, chills and sweats. If left untreated, can develop into shock-like symptoms with pulmonary oedema and renal failure.

## **PZ 04 Babesia Microti / Theileria Microti**

Common in US; causes Babesiosis /Piroplasmosis; also known as Texas cattle fever, redwater fever, tick fever, and Nantucket fever. For 25% of cases in adults and half of cases in children, the disease is asymptomatic or mild with flu-like symptoms. Symptoms are characterized by irregular fevers, chills, headaches, general lethargy, pain and malaise.

## **PZ 05 Balantidium Coli, Cysts**

Common in the Philippines, but it can be found anywhere in the world, especially among those that are in close contact with pigs - main source of infection usually through water contaminated with their faeces; causes the disease Balantidiasis (diarrhoea, constipation); perforation of the colon may also occur in acute infections which can lead to life-threatening situations;

## **PZ 06 Balantidium Coli, Trophozoites**

Common in the Philippines, but it can be found anywhere in the world, especially among those that are in close contact with pigs - main source of infection usually through water contaminated with their faeces; causes the disease Balantidiasis (diarrhoea, constipation); perforation of the colon may also occur in acute infections which can lead to life-threatening situations.

## **PZ 07 Chilomastix Mesnili, Cysts**

Found more frequently in warm climates; medically considered to be non-pathogenic.

## **PZ 08 Chilomastix Mesnili, Trophozoites**

Found more frequently in warm climates; medically considered to be non-pathogenic.

## **PZ 09 Cryptosporidium Parvum**

Causes cryptosporidiosis (primary symptoms are acute, watery, and non-bloody diarrhoea); other symptoms may include anorexia, nausea/vomiting and abdominal pain; other sites include the lung, liver and gall bladder where it causes respiratory cryptosporidiosis, hepatitis and cholecystitis.

## **PZ 10 Dientamoeba Fragilis, Trophozoites**

Causes gastrointestinal upset in some people, but not in others; an important cause of travellers' diarrhoea, chronic diarrhoea, fatigue and failure to thrive in children. No cyst stage.

## **PZ 11 Endolimax Nana, Cysts**

Originally thought to be non-pathogenic, but studies now suggest it can cause intermittent or chronic diarrhoea.

## **PZ 12 Endolimax Nana, Trophozoites**

Originally thought to be non-pathogenic, but studies now suggest it can cause intermittent or chronic diarrhoea.

**PZ 13 Entamoeba Coli, Cysts**

Commonly found in the lower intestine; can cause liver abscesses, fever, abdominal pain, food poisoning.

**PZ 14 Entamoeba Coli, Trophozoites**

Commonly found in the lower intestine; can cause liver abscesses, fever, abdominal pain, food poisoning.

**PZ 15 Entamoeba Gingivalis**

Found near the base of the teeth, and in periodontal pockets in 95% of people with gum disease; rarely found in people with healthy gums; transmission is direct from one person to another by kissing, or by sharing eating utensils. (No known cyst stage).

**PZ 16 Entamoeba Hartmanni, Cysts and Trophozoites**

Commonly found in the intestinal tract but considered non-pathogenic.

**PZ 17 Entamoeba Histolytica, Cysts**

Infection can be asymptomatic; symptoms include amoebic dysentery, bloody diarrhoea, weight loss, fatigue, abdominal pain, amoeboma and amoebic liver abscess. Most common in countries with poor sanitation.

**PZ 18 Entamoeba Histolytica, Trophozoites**

Infection can be asymptomatic; symptoms include amoebic dysentery, bloody diarrhoea, weight loss, fatigue, abdominal pain, amoeboma and amoebic liver abscess. Most common in countries with poor sanitation.

**PZ 19 Enterocytozoon Bieneusi Found in a wide variety of hosts including pigs, humans, and other mammals;** an important and rapidly emerging opportunistic disease, occurring mainly, but not exclusively, in severely immunocompromised patients with AIDS, resulting in diarrhoea and acalculous cholecystitis (the main opening to the gallbladder gets blocked).

**PZ 20 Giardia Lamblia, Cysts**

The most common pathogenic parasitic infection in humans worldwide; one of the most common parasites infecting cats, dogs and birds. Infection can occur through contaminated and food, or by the faecal-oral route through poor hygiene practices; symptoms include weakness in the body, loss of appetite, diarrhoea, loose or watery stools, stomach cramps, upset stomach, projectile vomiting, bloating, excessive gas, and burping but may be asymptomatic.

**PZ 21 Giardia Lamblia, Trophozoites**

The most common pathogenic parasitic infection in humans worldwide; one of the most common parasites infecting cats, dogs and birds. Infection can occur through contaminated and food, or by the faecal-oral route through poor hygiene practices; symptoms include weakness in the body, loss of appetite, diarrhoea, loose or watery stools, stomach cramps, upset stomach, projectile vomiting, bloating, excessive gas, and burping but may be asymptomatic.

**PZ 22 Iodamoeba Butschlii, Cysts**

Found worldwide; often present in large intestine; medically believed to be nonpathogenic.

**PZ 23 Iodamoeba Butschlii, Trophozoites**

Found worldwide; often present in large intestine; medically believed to be nonpathogenic.

**PZ 24 Leishmania Amazonensis, Promastigotes**

Found in the Americas; causes Leishmaniasis/ Leishmaniosis (ulcers of the skin, mouth, and nose).

**PZ 25 Leishmania Donovanii**

Prevalent throughout tropical and temperate regions including Africa (mostly in Sudan), China, India, Nepal, southern Europe, Russia and South America; causes Leishmaniasis/ Leishmaniosis (ulcers of the skin, mouth, and nose).

**PZ 26 Leishmania Major**

Found only in Northern Africa, the Middle East, Northwestern China, and Northwestern India; causes Leishmaniasis/ Leishmaniosis (ulcers of the skin, mouth, and nose).

**PZ 27 Leishmania Tropica Major**

Found in Ethiopia, India, European Mediterranean region, Middle East, Kenya and North Africa; causes Leishmaniasis/ Leishmaniosis (ulcers of the skin, mouth, and nose).

**PZ 28 Plasmodium Falciparum**

Much more prevalent in sub-Saharan Africa than in many other regions of the world; causes the most dangerous form of malaria.

**PZ 29 Plasmodium Malariae**

Widespread throughout sub-Saharan Africa, much of southeast Asia, Indonesia, on many of the islands of the western Pacific and in areas of the Amazon Basin of South America; causes the least dangerous form of malaria - benign/recurring malaria.



**PZ 30 Plasmodium Ovale**

Relatively rare compared with other Plasmodium; limited to West Africa, the Philippines, eastern Indonesia, Papua New Guinea, Bangladesh, India, Cambodia, Thailand and Vietnam; causes benign/recurring malaria.

**PZ 31 Plasmodium Vivax**

Found mainly in Asia and South America; the most frequent and widely distributed cause of benign /recurring malaria.

**PZ 32 Toxoplasma Gondii, Cysts**

One of the most common human parasites; often from eating undercooked pork; also soil, water and food contaminated with faeces from infected animals (particularly cats); may be sexually transmitted in humans, although not yet proven; up to a third of the global population has been exposed to and may be chronically infected with it, although infection rates differ significantly from country to country; causes toxoplasmosis; acute toxoplasmosis is often asymptomatic in healthy adults, but symptoms may occur and are often influenza-like (swollen lymph nodes, or muscle aches and pains that last for a month or more); may also cause subtle behavioural or personality changes; infection with the parasite associated with attention deficit hyperactivity disorder, obsessive compulsive disorder, schizophrenia and also suicides. This online blog article has a lot of interesting information about Toxoplasma gondii.

**PZ 33 Toxoplasma Gondii, Trophozoites**

One of the most common human parasites; often from eating undercooked pork; also soil, water and food contaminated with faeces from infected animals (particularly cats); may be sexually transmitted in humans, although not yet proven; up to a third of the global population has been exposed to and may be chronically infected with it, although infection rates differ significantly from country to country; causes toxoplasmosis; acute toxoplasmosis is often asymptomatic in healthy adults, but symptoms may occur and are often influenza-like (swollen lymph nodes, or muscle aches and pains that last for a month or more); may also cause subtle behavioural or personality changes; infection with the parasite associated with attention deficit hyperactivity disorder, obsessive compulsive disorder, schizophrenia and also suicides.

**PZ 34 Trichomonas Vaginalis, Trophozoite**

Vaginitis in woman; occasionally in men, affecting urethra, but usually asymptomatic. Usually sexually transmitted.

**PZ 35 Trypanosoma Cruzi**

Chagas disease in South America and sleeping sickness in Africa.

**PZ 36 Trypanosoma Brucei Gambiense**

Causes Central African sleeping sickness.

**PZ 37 Trypanosoma Brucei Rhodesiense**

Causes South African sleeping sickness.

# Recreational Drugs Test Kit

## 14 vials

*The energy patterns of amphetamine, cannabis resin, cocaine, dihydracodein, ecstasy, heroin, LSD, magic mushroom, marijuana, mescaline, morphine sulphate, methadone, nicotine and cotinine.*  
**Ketamine is in the Anaesthetic And Pain Test Kit.**

**RD1 Amphetamine**, also called speed, uppers, bennies.

A central nervous system stimulant. Short term effects: increases mental alertness and physical energy, decreases appetite, dryness of mouth. Depression and fatigue as drug wears off. At high doses: tremor, sweating, anxiety, headaches, palpitations and chest pains.

**RD2 Cannabis Resin: see Marijuana.**

**RD3 Cocaine, also called coke, crack, nose candy, snow.**

A central nervous system stimulant and local anaesthetic. Moderate doses: sense of well-being and elation, appetite reduced, increase in heart rate and blood pressure, tremors, sweating, dilation of pupils. Large doses: agitation, anxiety, hallucinations and paranoia.

**RD4 Dihydracodein**

A narcotic analgesic.

**RD5 Ecstasy**

A modification to the structure of amphetamines. In low doses: mental relaxation, tense muscles, increased sensitivity to stimuli and sometimes hallucinations. Higher doses: similar to amphetamines.

**RD6 Heroin, also called horse, junk, smack, scag, H.**

Central nervous system depressant. Short term effects: a feeling of well-being and contentment. Breathing and heart rate slowed; cough reflex inhibited. Long term effects: constipation, reduced sexual drive, disruption of menstrual cycle, poor appetite. Often mixed with other substances. Highly addictive.

**RD7 LSD, also called lysergic acid, acid, haze.**

An hallucinogenic. Restlessness, dizziness, coldness and shivering, uncontrollable desire to laugh, distortion in perception of sound and vision. Can lead to lasting mental problems. Flashbacks can occur months or years after taking the drug.

**RD8 Magic Mushroom**

**RD9 Marijuana, also known as cannabis, grass, pot, dope, weed, hash, ganja.**

A central nervous system depressant, hallucinogenic, anti-emetic (stops vomiting). Short term: feelings of relaxation, enhances visual and auditory perception, increases talkativeness, appetite stimulated. Impairment of short-term memory and problems with co-ordination. Long-term effect: probably increases risk of lung disorders, may reduce fertility, may lead to apathy and lethargy.

**RD10 Mescaline/Peyot, also called cactus buttons, big chief.**

An hallucinogenic. Alters visual and auditory perception. Appetite reduced. Risk of unpleasant mental effects, particularly if person anxious or depressed. May also experience nausea and vomiting caused by other constituents in plant.

**RD11 Morphine Sulphate (controlled release): see Heroin.**

**RD12 Methadone**

A narcotic used as an analgesic to ease heroin withdrawal. Can be addictive in its own right.

**RD13 Nicotine**

From cigarette smoke. Non-smokers are also exposed to this.

**RD14 Cotinine**

The breakdown product from nicotine. Nicotine is broken down into this in the body. Cotinine is highly addictive. Cotinine can be detected in the blood and urine of both smokers and children and adults exposed to cigarette smoke in their environment. Cotinine has been found in the breast milk of smokers too. Cotinine persists in the system longer than nicotine.

# Salicylates Test Kit

## 10 vials

Salicylates occur naturally in plants and serve to protect the plants against diseases, insects, fungi, and harmful bacteria. The range of foods that have no salicylate content is very limited. Synthetic salicylates can also be found in many medications, perfumes, personal care products and preservatives.

Both natural and synthetic salicylates can cause health problems in anyone when consumed in large doses. But for those who are salicylate intolerant, even small doses of salicylate can cause adverse reactions.

If you are interested in learning more about salicylate sensitivity, go to [www.salicylatesensitivity.com](http://www.salicylatesensitivity.com) and <http://www.feingold.org/>.

This kit is not for testing salicylate levels in foods.

### **S 01 Aspirin / Acetylsalicylic Acid**

Often used as an analgesic to relieve minor aches and pains, as an antipyretic to reduce fever, and as an anti-inflammatory medication.

### **S 02 Benzyl Salicylate**

Most frequently used in cosmetics; used as a solvent for synthetic musks and as a fixative in floral perfumes such as jasmine, lilac, and lily; found in hair dyes, moisturisers, sunscreen, bubble bath cleanser and aromatic candles; has been associated with allergies and contact dermatitis.

### **S 03 Ethyl Salicylate**

A pleasant odour resembling wintergreen; used in perfumery and as an artificial flavour in food.

### **S 04 Isoamyl Salicylate**

An orchid like smell: used in perfumery.

### **S 05 Isobutyl Salicylate**

Used as a perfume in a range of products (aromatic, herbaceous, floral smell) and as a food flavouring (sweet aromatic; cooling, spicy with fruity nuances).

### **S 06 Methyl Salicylate**

Used in perfume; also found in artificial flavours, sports rubs and pain relief creams; found naturally in wintergreen and birch.

### **S 07 Octyl Salicylate / Octisalate**

Used as an ingredient in sunscreens and cosmetics to absorb UVB (ultraviolet) rays from the sun.

### **S 08 Phenethyl Salicylate / Phenylethyl Salicylate**

Used as a perfume in a range of products (medicinal, balsamic, slightly fruity-floral smell) and as a food flavour (medicinal, balsamic). Used in detergents, fabric softeners, antiperspirants and deodorants, foam bath, bleach, hard surface cleaner, shampoo and soap.

### **S 09 Phenyl Salicylate**

Used in the manufacture of some polymers, lacquers, adhesives, waxes and polishes. Used as an antiseptic.

### **S 10 Salicylic Acid**

Natural sources are unripe fruits and vegetables, particularly blackberries, blueberries, cantaloupes, dates, raisins, kiwi fruits, guavas, apricots, green pepper, olives, tomatoes, radish and chicory; also mushrooms; some herbs and spices contain quite high amounts; while meat, poultry, fish, eggs and dairy products all have little to no salicylates. Of the legumes, seeds, nuts, and cereals, only almonds, water chestnuts and peanuts have significant amounts.

# SIBO Test Kit

## (Small Intestinal Bacterial Overgrowth) 25 vials

**(NOTE: All these vials (except for the mixed vial) are available in Bacteria 1 and Bacteria 2. They have been brought together into this kit for convenience for practitioners working in this field).**

Small intestinal bacterial overgrowth (SIBO) refers to a condition in which abnormally large numbers of bacteria are present in the small intestine, and the types of bacteria found in the small intestine are more like the bacteria found in the colon. Also known as small bowel bacterial overgrowth syndrome (SBBOS).

Causes include diverticulitis (where the pockets allow the build-up of bacteria), scarring from abdominal surgery (interfering with the proper movement of food and bacteria through the small intestine), Crohn's disease, scleroderma and diabetes mellitus.

Symptoms include flatulence, diarrhoea, constipation and abdominal bloating and abdominal pain. May experience body aches and/or fatigue. If the condition is severe or long-lasting, it may interfere with the proper absorption of vitamins and minerals. Weight loss may also be a problem. Symptoms occur because the bacteria produce gas, compete with their human host for the food in the small intestine, may produce toxic by-products that irritate the small intestine.

### **SIBO 01 Bacteroides Fragilis**

Involved in 90% of anaerobic peritoneal infections of the abdominal cavity.

### **SIBO 02 Clostridium Botulinum**

Botulism, muscle paralysis, vomiting, tiredness, food poisoning.

### **SIBO 03 Clostridium Difficile**

Diarrhoea, colitis, peritonitis. Often a problem after normal gut flora is eradicated by the use of antibiotics; infection often occurs in hospital and in nursing homes; some adults have low numbers of the bacteria without any symptoms; common in the intestine of babies and infants, but does not cause disease because its toxins do not damage their immature intestinal cells.

### **SIBO 04 Clostridium Perfringens**

Pneumonia. Widely distributed in the environment and frequently occurs in the intestines of humans and many domestic and feral animals.

### **SIBO 05 Clostridium Septicum**

Causes gangrene. Generally associated with gastro-intestinal or hematologic malignancies. An association exists with colon carcinoma.

### **SIBO 06 Clostridium Tetani**

Muscle rigidity followed by spasmodic muscle contraction with pallor and sweating. Found in soil.

### **SIBO 07 Clostridium Welchii**

Cellulitis.

### **SIBO 08 Enterococcus Faecalis / Streptococcus Faecalis**

Can cause life-threatening infections in humans, especially in the hospital environment. Frequently found in root canal-treated teeth. Can cause endocarditis and bacteremia, urinary tract infections, meningitis, and other infections. Among the main constituents of some probiotic food supplements.

### **SIBO 09 Enterococcus Faecium**

Can be commensal in the human intestine, but it may also be pathogenic, causing diseases such as neonatal meningitis.

### **SIBO 10 Escherichia Coli / E Coli**

Causes meningitis in babies, diarrhoea, liver abscess, fever, abdominal pain, urinary tract infection. Commensal of human intestine; found in raw and undercooked meat, raw vegetables and unpasteurised milk.

**SIBO 11 Group A Streptococcus / GAS**

Often found in the throat and on the skin. Illnesses include strep throat and occasionally invasive GAS disease. People may be carriers and experience no health problems themselves.

**SIBO 12 Group B Streptococcus / GBS**

In new-borns most commonly causes sepsis (infection of the blood), pneumonia and sometimes meningitis. In adults causes bloodstream infections, pneumonia, skin and soft tissue infections, and bone and joint infections.

**SIBO 13 Klebsiella Pneumoniae**

Pneumonia and urinary tract infections; tends to affect people with underlying diseases, particularly in hospital.

**SIBO 14 Staphylococcus Aureus**

Respiratory symptoms, conjunctivitis, styes, difficulty in breathing, otitis media, pus in lungs, pneumonia, childhood pneumonia, breathlessness, chest pain, endocarditis, meningitis in elderly, brain abscess, cellulitis, food poisoning, liver abscess, fever, abdominal pain, urinary tract infection. Common skin commensal; some strains are now becoming antibiotic resistant.

**SIBO 15 Staphylococcus Epidermitis**

Breathlessness, chest pain, endocarditis, urinary tract infection.

**SIBO 16 Staphylococcus Saprophyticus**

Often implicated in urinary tract infections and cystitis.

**SIBO 17 Streptococcus Agalactiae**

Neonatal infection, septicaemia, meningitis, nosocomial infection. Commensal in intestine and female genital tract.

**SIBO 18 Streptococcus Lactis**

Found commonly as a contaminant in milk and dairy products; a common cause of souring and coagulation of milk; some strains produce nisin, a powerful antibiotic that inhibits growth of many other gram-positive organisms.

**SIBO 19 Streptococcus Mitis**

Part of the normal mammal flora; found in mouth, throat, and nasopharynx. Can cause endocarditis.

**SIBO 20 Streptococcus Mutans**

Dental caries.

**SIBO 21 Streptococcus Pneumoniae**

Conjunctivitis, difficulty in breathing, sinusitis, otitis media, pus in lungs, pneumonia, childhood pneumonia, meningitis, meningitis in elderly and children, brain abscess; associated with increased risk of fatal heart complications including heart failure and heart attacks. Commensal of human upper respiratory tract.

**SIBO 22 Streptococcus Pyogenes**

Sore throat, tonsillitis/ pharyngitis, difficulty in breathing, sinusitis, otitis media, pus in lungs, lung abscess, pneumonia, rheumatic fever, scarlet fever, impetigo, cellulitis, liver abscess, fever, abdominal pain, toxic shock, septicaemia.

**SIBO 23 Streptococcus Salivarius**

The principal commensal bacterium of the oral cavity and a normal inhabitant of the upper respiratory tract. The first bacterium that colonises dental plaque, creating favourable conditions for other bacteria.

**SIBO 24 Streptococcus Viridians**

Breathlessness, chest pain, endocarditis.

**SIBO 25 Mixed SIBO**

One vial containing all of the above.

# Spider & Scorpion Test Kit

12 vials

Spider and scorpion venom from around the world.

Code	- Latin Name	- Common Names	- Geographical Spread
SS 01	Atrax Robustus Funnelweb Spider / Sydney Funnel-Web Spider Found in NSW, Australia		
SS 02	Cheiracanthium Punctorium Yellow Sac Spider Found from central Europe to Central Asia.		
SS 03	Latrodectus Geometricus Brown Widow Spider / Brown Button/ Grey Widow/ Brown Black Widow/ House Button Spider / Geometric Button Spider Found in South Africa, the United States, Australia, Afghanistan, China, Japan, Tanzania, Dominican Republic, Cyprus, Costa Rica, El Salvador, United Arab Emirates, Pakistan and Thailand.		
SS 04	Latrodectus Hasselti	Redback Spider	Australia
SS 05	Latrodectus Mactans Black Widow / Southern Black Widow Native to North America.		
SS 06	Latrodectus Tredecimguttatus Mediterranean Black Widow / European Black Widow / Steppe Spider Commonly found throughout the Mediterranean region, ranging from Portugal to south west and central Asia.		
SS 07	Loxosceles Reclusa Brown Recluse Spider / Fiddleback Spider/ Brown Fiddler/ Violin Spider Found in USA		
SS 08	Androctonus Bicolor Black Fat-Tailed Scorpion Widespread in North and West Africa and the Middle East.		
SS 09	Hottentotta Tamulus Indian Red Scorpion / Eastern Indian Scorpion Occurs in most of India, eastern Pakistan, the eastern lowlands of Nepal and in Sri Lanka.		
SS 10	Leiurus Quinquestriatis Deathstalker / Palestine Yellow Scorpion / Omdurman Scorpion/ Naqab Desert Scorpion Found in desert and scrubland habitats ranging from North Africa through to the Middle East.		
SS 11	Parabuthus Transvaalicus Transvaal Thick-Tailed Scorpion or Dark Scorpion		Dry parts of southern Africa.
SS 12	Tityus Stigmurus	Brazilian Scorpion	Brazil



# Sweeteners Test Kit

## 24 vials

*Various natural and artificial sweeteners including sugar, honey, high fructose corn syrup, stevia, aspartame, acesulfame K and sucralose.*

**SW01 Acesulfame Potassium / Acesulfame K / Ace K / E950**

An artificial sweetener. Often blended with other sweeteners (usually sucralose or aspartame).

**SW02 Agave Syrup**

**SW03 Aspartame / E951**

An artificial sweetener.

**SW04 Barley Malt / Pure Malt / Malt**

**SW05 Date Syrup**

**SW06 Erythritol** An artificial sweetener. Produced from glucose by fermentation with a yeast, *Moniliella pollinis*. Does not affect blood sugar, does not cause tooth decay, and is partially absorbed by the body, excreted in urine and faeces.

**SW07 Fructose**

**SW08 High Fructose Corn Syrup / Glucose–Fructose Syrup / High-Fructose Maize Syrup**

Glucose syrup where some of it has been changed into fructose. Very common in processed foods and beverages in the USA.

**SW09 Honey**

**SW10 Mannitol / E421**

Used in diabetic foods, also hard candies/sweets, dried fruits, chewing gum and chewable tablets. Made from fructose.

**SW11 Maple Syrup**

**SW12 Molasses**

By-product of the refining of sugarcane, grapes, or sugar beets into sugar.

**SW13 Monk Fruit / Lou Han / Buddha Fruit**

From the vine *Siraitia grosvenorii*.

**SW14 Neotame / E961**

An artificial sweetener.

**SW15 Palm Sugar/ Jaggery Goor**

**SW16 Rice Syrup /Brown Rice Syrup**

**SW17 Saccharin / E954**

An artificial sweetener.

**SW18 Sodium Cyclamate / Cyclamate/ E952**

Approved as a sweetener in over 55 countries, but banned in USA. Often used with other artificial sweeteners, especially saccharin.

**SW19 Sorbitol / Glucitol / E420**

An artificial sweetener. Often used in cosmetics (as a humectant and thickener) and in mouthwash and toothpaste. Used to sweeten processed foods, including frozen desserts, baked goods, sugar-free candies/sweets and chewing gum. Found naturally in apples, pears, peaches, and prunes.

**SW20 Stevia Leaf Powder**

From the stevia plant.

**SW21 Sucralose / E955**

An artificial sweetener widely used throughout the world.

**SW22 Sugar, Beet**

Accounts for almost 20% of sugar produced. In the same botanical food family as spinach and chard.

**SW23 Sugar, Cane**

Accounts for 80% of sugar produced. . In the same botanical food family as wheat, barley, etc.

**SW24 Xylitol / E967**

Made from hardwood or maize. Actively beneficial for dental health, reducing caries to a third in regular use, and has been shown to reduce the incidence of acute middle ear infection.

# Vaccination Test Kit

## 58 vials

*The energy patterns of most of the standard childhood vaccines, plus influenza (several strains), HPV (the cervical cancer vaccine), H1N1 and some travel vaccines. NOTE: If you have the old kit of 31 vials, you can buy the new vials plus labels for some of the existing vials. Please contact us.*

Code	Vaccine	Trade Name	Illness
VAR 01	5-In-1 Vaccine		Whooping Cough + Diphtheria + Bacterial Meningitis + Tetanus + Polio
VAR 02	6-in-1 / Hexavalent		Diphtheria + Tetanus + Acellular Pertussis + Haemophilus Influenzae Type B + Poliovirus + Hepatitis B
VAR 03	BCG / TB		Tuberculosis
VAR 04	Cholera		Cholera
VAR 05	Diphtheria		Diphtheria
VAR 06	Diphtheria + Tetanus		Diphtheria + Tetanus
VAR 07	Diphtheria + Tetanus + Polio	Revaxis	Diphtheria + Tetanus + Polio
VAR 08	DPT	Covaxis	Diphtheria + Whooping Cough + Tetanus
VAR 09	DPT	U.S. Pharmacopeial Convention (USP)	Diphtheria + Whooping Cough + Tetanus Toxoids Adsorbed
VAR 10	DPT	Infanrix	Diphtheria + Tetanus Toxoids + Acellular Pertussis Vaccine
VAR 11	DPT Adsorbed		Diphtheria + Acellular Whooping Cough + Tetanus Toxoids
VAR 12	DPT + HIB		Diphtheria + Whooping Cough + Tetanus + Haemophilus Influenzae Type B
VAR 13	DPT + Polio	Infanrix Tetra	Diphtheria + Whooping Cough + Tetanus + Polio
VAR 14	DPT + Polio	Repevax	Diphtheria + Whooping Cough + Tetanus + Polio
VAR 15	DPT + Polio Booster	Boostrix	Diphtheria + Whooping Cough + Tetanus + Polio
VAR 16	H1N1 Swine Flu		H1N1 Swine Flu
VAR 17	Hepatitis A		Hepatitis A
VAR 18	Hepatitis A + B		Hepatitis A + B
VAR 19	Hepatitis A + Typhoid	Hepatyrix	Hepatitis A + Typhoid
VAR 20	Hepatitis B	Engerix B	Hepatitis B
VAR 21	Hepatitis B	HB VAX II	Hepatitis B
VAR 22	HIB	ActHIB	Haemophilus Influenzae Type B (Bacterial Meningitis)
VAR 23	HIB	Hiberix	Haemophilus Influenzae Type B (Bacterial Meningitis)
VAR 24	HIB + Meningitis C	Menitorix	Haemophilus Influenzae Type B (Bacterial Meningitis), Meningitis C
VAR 25	HPV	Cervarix	Human Papilloma Virus (genital Warts , Cervical Cancer)
VAR 26	HPV	Gardasil	Human Papilloma Virus (genital Warts , Cervical Cancer)
VAR 27	Influenza 1992,1994 to current		Influenza ( <b>updated each year</b> )
VAR 28	Japanese Encephalitis Vaccine		Japanese Encephalitis
VAR 29	Measles		Measles
VAR 30	Men ACWY	ACWY Vax	Meningococcal A, C, W and Y Diseases
VAR 31	Men ACWY	Menveo	Meningococcal A, C, W and Y Diseases
VAR 32	Meningitis A		Meningitis A
VAR 33	Meningitis A + C	Travel Vaccine	Meningitis A and C
VAR 34	Meningitis B	Bexsero	Meningitis B
VAR 35	Meningitis C		Meningitis C
VAR 36	MMR		Measles + Mumps + Rubella (pre 2008)
VAR 37	MMR II		Measles + Mumps + Rubella
VAR 38	MMRV		Measles + Mumps + Rubella + Chickenpox
VAR 39	MR		Measles + Rubella

VAR 40	.....Mumps.....	Mumps
VAR 41	.....Pertussis.....	Whooping Cough
VAR 42	.....Pneumococcal 7.....	Prevenar 7 .....Whooping Cough
VAR 43	.....Pneumococcal 13 / PPSV23 .	Prevenar 13 .....Whooping Cough
VAR 44	.....Pneumococcal 23 / PPV-23...	Pneumovax II.....Whooping Cough
VAR 45	.....Polio.....	Sabin.....Polio
VAR 46	.....Polio.....	Salk.....Polio
VAR 47	.....Rabies.....	Rabies
VAR 48	.....Rota Virus.....	Rotarix.....Rota Virus
VAR 49	.....Rota Virus.....	RotaTeq.....Rota Virus
VAR 50	.....Rubella.....	Rubella (German Measles)
VAR 51	.....Smallpox.....	Smallpox
VAR 52	.....TAB.....	Typhoid + Paratyphoid A + Paratyphoid B
VAR 53	.....Tetanus.....	Tetanus
VAR 54	.....Tick-Borne Encephalitis Virus FSME-IMMUN Junior	Tick-Borne Encephalitis Virus
VAR 55	.....Tick-Borne Encephalitis Virus TicoVac FFME....	Tick-Borne Encephalitis Virus
VAR 56	.....Typhoid.....	Typhoid
VAR 57	.....Varicella / Chicken Pox.....	Varivax .....Varicella / Chicken Pox / Shingles
VAR 58	.....Yellow Fever.....	Yellow Fever

# Virus 1 Test Kit

## 21 vials

*The energy patterns of hepatitis A, B and C, mumps, chickenpox, measles, HIV, polio, the respiratory syncytial virus, hepatitis, herpes simplex and zoster, Epstein-Barr, coxsackie, etc.*

### VI 01 **Coxsackie**

Tonsillitis/ pharyngitis, childhood pneumonia, upper respiratory tract infection, greyish ulcers of soft palate and fauces, Bornholm disease, fever, hand foot and mouth disease, flaccid paralysis, viral meningitis. 24 group A and 6 group B.

### VI 02 **Cytomegalovirus (CMV)**

Tonsillitis/ pharyngitis, encephalitis, hepatitis.

### VI 03 **Epstein-Barr Virus (EBV)**

Infectious mononucleosis, tonsillitis/ pharyngitis, glandular fever, encephalitis, hepatitis, implicated in nasopharyngeal carcinoma and lymphomas, viral meningitis.

### VI 04 **Hepatitis A (HAV)**

Acute hepatitis.

Particularly prevalent in developing countries.

In developed nations 20% of young adults show serological evidence of past infection.

### VI 05 **Hepatitis B (HBV)**

Acute and chronic viral hepatitis, implicated in primary liver cancer.

0.1% of UK population estimated to be carriers.

### VI 06 **Hepatitis C (HCV)**

Acute and chronic viral hepatitis, implicated in primary liver cancer.

### VI 07 **Herpes Simplex Type 1 (HSV)**

Tonsillitis/ pharyngitis, cold sores, whitlows, encephalitis, oral and genital ulcers (cold sores).

### VI 08 **Herpes Simplex Type 2 (HSV)**

Genital ulcers.

### VI -9 **Herpes Zoster**

Shingles.

### VI 10 **Human Immunodeficiency Virus (HIV)**

Tonsillitis/ pharyngitis, encephalitis.

### VI 11 **Influenza**

Singapore A, Sichnan A, Beijing A, Shangdong A, Panama B, Yamagata B strains in this vial.

### VI 12 **Measles Virus**

Fever and running nose, cough followed by rash, viral meningitis.

### VI 13 **Mumps Virus**

Headache, sore throat and fever with enlarged salivary glands

### VI 14 **Papilloma Human Virus (HPV)**

Warts, verrucas, implicated in cancer of the cervix.

### VI 15 **Polio Virus**

Poliomyelitis. 3 types. Type 1 most virulent.

### VI 16 **Respiratory Syncytial Virus (RSV)**

Croup, common cold, childhood pneumonia.

Asthma sometimes starts after an infection with this virus.

### VI 17 **Rubella Virus(German Measles)**

German measles, rash.

#### VI 18 **Smallpox Virus**

Smallpox, influenza-type illness, pus-filled blisters.

It is believed that no reservoirs of this virus are now left outside of laboratories.

#### VI 19 **Varicella Zoster**

Chickenpox.

#### VI 20 **Yellow Fever Virus**

Hepatitis. Occurs in tropical areas of Africa and South America

#### VI 21 **Parvovirus**

Causes slapped cheek disease (fifth disease / erythema infectiosum); a distinctive red, lacy-like rash on cheeks (and sometimes other parts of body), headache, fever; occurs most often in children; 20% to 30% symptom-free even though infected; in adults can cause joint pains and swelling, miscarriages in the first 20 weeks of pregnancy; can cause chronic anaemia in those with HIV or who have had organ transplants.

Thought that 60% of all adults in the UK have been infected with Parvovirus at some point, usually as a child (NHS Direct).

## **Virus 2 Test Kit** **25 vials**

*This kit includes Adenovirus (linked to respiratory illness), Coronavirus (the common cold), Human T-Lymphotropic Virus Type 1 and 2 (neurological illnesses and leukemia), Norovirus (gastroenteritis), four Parainfluenza strains, Rhinovirus (the common cold) and West Nile Virus. The kit also includes viruses that are of a concern from a biological warfare standpoint (e.g. SARS, Dengue and Ebola).*

#### VI 22 **Adenovirus**

Most commonly causes illness of the respiratory system, but may also cause gastroenteritis, conjunctivitis, cystitis, and rashes.

#### VI 23 **Astrovirus**

Causes diarrhoea and viral gastroenteritis.

#### VI 24 **Avian Influenza Virus / H5N1**

Infections have been documented among humans, sometimes causing severe illness and death.

#### VI 25 **Borna Virus**

May play a role in some human neurological and psychiatric conditions including bipolar disorder and depression. Has been found in animals in Europe, Asia, Africa and North America.

#### VI 26 **Coronavirus**

Primarily infects the upper respiratory and gastrointestinal tract, causing the common cold.

#### VI 27 **Dengue Fever**

An infectious tropical disease, but seen as a potential biological warfare agent. Symptoms include fever, headache, muscle and joint pains, and a characteristic skin rash that is similar to measles.

#### VI 28 **Ebola Virus (REBOV and ZEBOV)**

Causes Ebola hemorrhagic fever. Mainly restricted to Africa but seen as a potential biological warfare agent.

#### VI 29 **Echovirus**

The leading causes of acute febrile illness in infants and young children, and is the most common cause of aseptic meningitis.

#### VI 30 **Enterovirus**

Has been associated with hand, foot, and mouth disease.

#### VI 31 **GB Virus C / GBV-C**

Formerly known as hepatitis G virus (HGV). Known to infect humans, but is not known to cause human disease.

**VI 32 Hepatitis D**

Occurs only when Hepatitis B (HBV) is present, resulting in more severe complications compared to infection with HBV alone.

**VI 33 Hepatitis E**

Prevalent in most developing countries, and common in any country with a hot climate.

**VI 34 Human T-Lymphotropic Virus Type 1 / HTLV-I/ Adult T-Cell Lymphoma Virus Type 1**

Has been seriously implicated in several kinds of diseases, including HTLV-I-associated myelopathy and *Strongyloides stercoralis*, and as a virus cancer link for leukaemia.

**VI 35 Human T-Lymphotropic Virus Type 2**

Associated with neurologic disorders and chronic pulmonary infections. Found predominantly in IV drug users, Native Americans, Caribbean and South American Indian groups.

**VI 36 Japanese Encephalitis Virus**

Causes encephalitis. Transmitted by mosquitoes. Most prevalent in Southeast Asia and the Far East.

**VI 37 Norovirus / Norwalk Virus**

Causes about half of all non-bacterial gastroenteritis cases around the world.

**VI 38 Parainfluenza Virus 1**

Parainfluenza viruses are the second most common cause of lower respiratory tract infection in younger children, including croup. Also upper respiratory tract illness (a cold and sore throat).

**VI 39 Parainfluenza Virus 2**

Parainfluenza viruses are the second most common cause of lower respiratory tract infection in younger children, including croup. Also upper respiratory tract illness (a cold and sore throat).

**VI 40 Parainfluenza Virus 3**

Parainfluenza viruses are the second most common cause of lower respiratory tract infection in younger children, including croup. Also upper respiratory tract illness (a cold and sore throat). This strain also associated with bronchiolitis and pneumonia.

**VI 41 Parainfluenza Virus 4**

Parainfluenza viruses are the second most common cause of lower respiratory tract infection in younger children, including croup. Also upper respiratory tract illness (a cold and sore throat).

**VI 42 Rhinovirus**

Main cause of human common cold.

**VI 43 Rotavirus**

The most common cause of severe diarrhoea among infants and young children. Can occur throughout life: the first usually produces symptoms, but subsequent infections are typically mild or asymptomatic.

**VI 44 Severe Acute Respiratory Syndrome Virus (SARS)**

A viral respiratory illness; no known outbreaks since 2004. Seen as a potential biological warfare agent.

**VI 45 Swine Flu Virus / Swine Influenza Virus / H1N1 Virus**

Transmission of the virus from pigs to humans is not common and does not always lead to human flu.

**VI 46 West Nile Virus**

Main route of human infection is through the bite of an infected mosquito. Approximately 90% of West Nile Virus infections in humans are without any symptoms. Found in Africa, Europe, the Middle East, west and central Asia, Oceania and North America.



# Virus 3 Test Kit

## 25 vials

Another 21 viruses including Zika Virus, Hanta virus, Human Herpes Virus 6, Simian Virus 40, etc.

### **VI 47 BK Virus**

Many people who are infected with this virus are asymptomatic. If symptoms do appear, they tend to be mild: respiratory infection or fever. Past infection with the BK virus is widespread, but significant consequences of infection are uncommon, with the exception of the immune-compromised and the immunosuppressed.

### **VI 48 California Encephalitis Virus**

Causes encephalitis in humans. Characterized by fever, drowsiness, and lack of mental alertness and orientation. Seizures occur in 50% of children. Focal neurologic signs such as irregular and abnormal reflexes develop in 20% of children. 10% of patients develop coma. The total duration of illness rarely exceeds 10–14 days. Recurrent unprovoked seizures occur even after the illness has passed. This develops in 20% of patients, especially those who had seizures during the acute illness. In adults, infection is asymptomatic.

### **VI 49 Colorado Tick Fever Virus /CTFV**

Initial symptoms include fever, chills, headaches, pain behind the eyes, light sensitivity, muscle pain, generalized malaise, abdominal pain, nausea, and vomiting, as well as a flat or pimply rash. During the second phase a high fever can return with an increase in symptoms. Found almost exclusively in the western United States and Canada, mostly in high mountain areas such as Colorado and Idaho.

### **VI 50 Cowpox**

Red blisters, usually through contact with diseased domestic cats, sometimes directly from rats or domesticated house mice.

### **VI 51 Eastern Equine Encephalitis Virus /EEE/ Triple E**

Present in North, Central and South America and the Caribbean. Symptoms include high fever, muscle pain, altered mental status, headache, meningeal irritation, photophobia, and seizures, which occur three to 10 days after the bite of an infected mosquito.

### **VI 52 Everglades Virus**

The virus circulates among rodents and vector mosquitoes and sometimes infects humans, causing a febrile illness with occasional neurological manifestations. Most clinical cases of infection occur in and around the city of Miami.

### **VI 53 Hantavirus**

Infection occurs through urine, saliva or contact with rodent waste products. May cause potentially fatal diseases in humans, such as hemorrhagic fever with renal syndrome (HFRS) and hantavirus pulmonary syndrome (HPS), but may be asymptomatic with no apparent health effects.

### **VI 54 Human Foamy Virus**

Has been isolated from patients with various neoplastic and degenerative diseases such as myasthenia gravis, multiple sclerosis, thyroiditis de Quervain, and Graves' disease but the role of the virus is unclear. Recent studies indicate that it is not pathogenic in humans.

### **VI 55 Human Herpes Virus 6**

Cause of the common childhood illness exanthem subitum (also known as roseola infantum or sixth disease). Found in some patients with neuro-inflammatory diseases such as multiple sclerosis.

### **VI 56 Human Herpes Virus 8 / Kaposi's Sarcoma-Associated Herpesvirus /KSHV/HHV-8**

Kaposi's sarcoma, primary effusion lymphoma, some types of multicentric Castleman's disease. Healthy individuals can be infected with the virus and show no signs or symptoms, due to the immune system's ability to keep the infection in check. Infection is of particular concern to the immunosuppressed. Cancer patients receiving chemotherapy, AIDS patients and organ transplant patients are all at a high risk of showing signs of infection.

### **VI 57 JC Virus / John Cunningham Virus**

Initial site of infection may be the tonsils, or possibly the gastrointestinal tract. Then remains latent in the gastrointestinal tract and can also infect the tubular epithelial cells in the kidneys, where it continues to reproduce, shedding virus particles in the urine. Very common in the general population, infecting 70 to 90 percent of humans; most people acquire JCV in childhood or adolescence. It is found in high concentrations in urban sewage worldwide, leading some researchers to suspect contaminated water as a typical route of infection.

Causes progressive multifocal leukoencephalopathy and other diseases only in cases of immunodeficiency.

#### **VI 58 La Crosse Virus**

Mosquito-transmitted virus that can cause encephalitis, or inflammation of the brain. Occurs in the Appalachian and Midwestern regions of the United States.

#### **VI 59 Lassa Virus / Lassa Fever Virus**

Causes Lassa haemorrhagic fever. Endemic in West African countries.

#### **VI 60 Lymphocytic Choriomeningitis Virus (LCMV)**

Spread by the common house mouse. During the initial phase, lasting up to a week, common symptoms include fever, lack of appetite, headache, muscle aches, malaise, nausea, and/or vomiting. Less frequent symptoms include a sore throat and cough, as well as joint, chest, and parotid pain. Second phase starts several days after recovery, and consists of symptoms of meningitis or encephalitis. Congenital infection may lead to malformations such as intracranial calcifications, hydrocephalus, microcephaly or macrocephaly, mental retardation, and seizure.

#### **VI 61 Murray Valley Encephalitis Virus**

Endemic to northern Australia and Papua New Guinea. Causal agent of Murray Valley encephalitis (previously known as Australian encephalitis); in humans can cause permanent neurological disease or death.

#### **VI 62 Puumala Virus**

Haemorrhagic fever with renal syndrome. Found predominantly in Scandinavia and Finland, although it has also been reported elsewhere in Northern Europe, Poland and Russia.

#### **VI 63 Rift Valley Fever Virus**

Causes fever. Mainly in sub-Saharan Africa.

#### **VI 64 Ross River Virus**

Causes an influenza-like illness and polyarthritis. The virus is endemic to Australia, Papua New Guinea, Fiji, Samoa, the Cook Is lands, New Caledonia and several other islands in the South Pacific.

#### **VI 65 Simian Virus 40**

Found in both monkeys and humans. Has the potential to cause tumors, but most often persists as a latent infection. Polio vaccine contaminated with it in 1960's.

#### **VI 66 Sindbis Virus**

Symptoms include arthralgia, rash and malaise. Most common in South and East Africa, Egypt, Israel, Philippines and parts of Australia.

#### **VI 67 Tick-Borne Encephalitis Virus**

Most often manifests as meningitis, encephalitis, or meningoencephalitis; mild fever can also occur. Long-lasting or permanent neuropsychiatric complications are observed in 10-20% of infected patients.

#### **VI 68 Chikungunya**

Causes fever and joint pain; other symptoms may include headache, muscle pain, joint swelling, or rash. Transmitted by mosquito. Outbreaks have occurred in countries in Africa, Asia, Europe, and the Indian and Pacific Oceans and the Caribbean. There is a risk that the virus will be imported to new areas by infected travellers.

#### **VI 69 Herpes 7**

Often acts together with herpes virus 6; can cause a skin condition in infants known as exanthema subitum; also leads to or is associated with a number of other symptoms, including acute febrile respiratory disease, fever, rash, vomiting, diarrhoea, low lymphocyte counts, and febrile seizures, though often no symptoms present at all. Over 95% of adults have been infected and are immune to HHV-7, and over three quarters of those were infected before the age of six.

#### **VI 70 Parvovirus B19**

Causes a mild rash illness called erythema infectiosum or Fifth Disease; more common in children than adults. People with weakened immune systems caused by leukemia, cancer, organ transplants, or HIV infection are at risk for serious complications from fifth disease.

#### **VI 71 Zika Virus**

Most common symptoms are fever, rash, joint pain, and conjunctivitis. The illness is usually mild with symptoms lasting from several days to a week. Reports of Guillain-Barré syndrome and pregnant women giving birth to babies with birth defects and poor pregnancy outcomes have been linked to the virus. Outbreaks have occurred in areas of Africa, Southeast Asia, the Pacific Islands and South America. Transmitted by mosquitos.

# Weight Test Kit

## 38 vials

*This kit draws together vials that are spread across other kits. There are no vials which are unique to this kit. They include hormones, enzymes, amino acids, etc. that affect metabolism, blood glucose levels, gastric emptying and appetite control. Vials include insulin, glycogen, T4, T3, reverse T3, leptin, neuropeptide Y, carnitine, etc. 38 vials*

The information here just focusses on the role of these in blood sugar control, appetite management and metabolism.

### WT01 **Anandamide**

May increase appetite.

### WT02 **Arginine**

An amino acid. Involved with glucose control mechanism in blood; enhances fat metabolism; involved in insulin production; stimulates human growth hormone.

### WT03 **Carnitine**

An amino acid. Major role in transferring fatty acids into cells where used as energy sources; mobilising fatty deposits in obesity.

### WT04 **CART**

Modulates the action of leptin and neuropeptide Y and so reduces appetite.

### WT05 **CCK / Cholecystokinin**

Stimulates a feeling of satiety; may regulate feeding as a “stop eating” signal.

### WT06 **Corticotropin Releasing Hormone / CRH**

Involved in the regulation of food intake.

### WT07 **Cortisol / Hydrocortisone**

The principal glucocorticoid; increases blood glucose levels by increasing cellular utilisation of proteins and fats as energy sources thus conserving glucose; stimulates liver cells to produce glucose from amino acids and fats.

### WT08 **Cyclic AMP / Cyclic Adenosine-3',5' - Monophosphate**

Causes adipose cells to break down triglycerides and release fatty acids more rapidly; stimulates thyroid cells to secrete more thyroid hormone.

### WT09 **Dipeptidyl Peptidase IV**

Arrests biological activity of GLP1 and Substance P.

### WT10 **Epinephrine/ Adrenaline**

Slows digestion, increases blood sugar.

### WT11 **Exendin (9-39)**

Reduces glucose levels; competes for the same brain receptors as GLP1 and so blocks the effect of GLP1 and stimulates appetite.

### WT12 **Galanin**

Stimulates the appetite.

### WT13 **Ghrelin**

Increases appetite; may be a hormonal link between stomach, hypothalamus and pituitary and so regulate energy balance; regulates growth hormone secretions; may signal to the hypothalamus when an increase in metabolic efficiency is necessary.

### WT14 **Glucagon**

Raises blood sugar levels by accelerating breakdown of glycogen into glucose in the liver, converting other nutrients into glucose in the liver, and releasing glucose into the blood – opposes the action of insulin.

### WT15 **Glucagon-Like Peptide 1/GLP1**

Stimulates production of insulin; inhibits production of glucagon and gastric emptying; reduces appetite; lowers blood glucose in people with diabetes.

### WT16 **Glucocorticoids**

Conversion of non-carbohydrates into energy.

**WT17 Glycogen**

The principal carbohydrate storage material in the body; plays an important role in controlling blood sugar levels.

**WT18 Glycogen Phosphorylase A**

Involved in converting glycogen to glucose.

**WT19 Glycogen Synthase**

Involved in converting glucose to glycogen.

**WT20 Growth Hormone Inhibiting Hormone / Somatostatin**

Inhibits secretion of insulin and glucagons and slows absorption of nutrients from the gastro-intestinal tract.

**WT21 Human Growth Hormone / Somatotropin**

Helps to maintain muscle and bone mass and promote healing of injuries and tissue repair; speeds up the breakdown of liver glycogen into glucose; excess production may cause diabetes mellitus.

**WT22 Insulin**

Decreases blood sugar levels.

**WT23 Leptin**

Released by fat cells as they synthesise triglycerides; reduces appetite; non-insulin dependent diabetes.

**WT24 Melanocyte-Stimulating Hormone / MSH**

Suppresses appetite.

**WT25 Neuromedin B**

Involved in blood glucose control; suppresses the appetite.

**WT26 Neuropeptide Y**

Stimulates appetite; causes increased storage of ingested food as fat; reduces energy expenditure.

**WT27 Orexin B**

Generated when blood sugar levels drop, so acting as a trigger to eat.

**WT28 Pheylalanine**

An amino acid. Precursor of tyrosine and therefore dopamine, norepinephrine (noradrenaline) and epinephrine (adrenaline), so affects blood sugar levels and fat metabolism; necessary for thyroid; involved in weight control.

**WT29 Prostaglandin E2 / PGE2**

Acts on adenylate cyclase to enhance the production of cyclic AMP.

**WT30 Protein Tyrosine Phosphatase / PTP1B**

Inhibits signaling of leptin and insulin<sup>1</sup>; may explain resistance to leptin and insulin; likely to be important in obesity and type 2 diabetes; drug research now being carried out to find drugs to inhibit PTP1B.

**WT31 Reverse T3 / 3,3',5'-Triiodothyronine**

Reverse T3 and T3 are secreted in an inverse relationship allowing the thyroid to adjust the amount of thyroid activity; blocks the action of T3 by binding with the receptor sites.

**WT32 Serotonin**

Decreases carbohydrate cravings; provides a feeling of fullness; enhances mood.

**WT33 Thyroid-Stimulating Hormone / TSH**

Stimulates thyroid gland to produce its hormones.

**WT34 Thyrotropin Releasing Hormone / TRH**

Stimulates anterior pituitary to secrete TSH.

**WT35 Thyroxine / Tetraiodothyronine / T4**

Converted into T3; increase rate at which cells release energy from carbohydrates.

**WT36 Triiodothyronine/T3**

Regulates metabolism by stimulating carbohydrate and fat breakdown.

**WT37 Urocortin**

Inhibits appetite.

**WT38 Val-Pro-Asp-Pro-Arg**

Research on rats indicates that this is an appetite suppressant.

# Single Vials:

for more details go to our single vials webpage:

<https://www.kinesiologyshop.com/single-testing-vials/>

Also note that single vials may come in different sizes depending on the range they come from.

## EP Vial Size: 50 x 10cm

### ● Molluscum Contagiosum Vial

A common, yet rarely discussed skin infection. Caused by the molluscum contagiosum virus, it produces clusters of lesions or bumps to appear on the skin. While typically painless, the lesions can be unsightly and embarrassing for those affected.

The most common areas affected by molluscum contagiosum in children are the neck, arms, chest, belly, legs, buttox and genital region. Palms and soles are rarely affected. In adults, the lesions are generally located in the genital region but may infect other parts of the body.

While molluscum contagiosum will resolve on its own, it can take 16 months or even years for the lumps to go away completely. Medications and surgical treatments are available.

### ● T Helper Cell

T cells are also known as T lymphocytes. The “T” stands for “thymus”, the organ in which these cells mature. They are a type of white blood cell that is of key importance to the immune system and is at the core of adaptive immunity, the system that tailors the body’s immune response to specific pathogens. The T cells are like soldiers who search out and destroy the targeted invaders. T cells can produce substances called cytokines such as the interleukins which further stimulate the immune response.

### ● 5G Radiation

### ● Smart Meter

### ● White Tailed Spider

## KTK Vial Size: 38 x 8cm

## COVID 19 & Related Vials

- Influenza Vaccination 2020/2021 annual update vial
- COVID 19: Original Wuhan Virus Vial
- COVID 19: Delta Strain vial
- COVID 19 Vaccination: Astra Zeneca
- COVID 19 Vaccination: Pfizer
- COVID 19 Vaccination: Moderna
- COVID 19 Vaccination: Johnson & Johnson

## **RELATED ITEMS OF INTEREST**

### **Essences**

#### **Australian Bush Flower Essences**

Full Stock Kit of 69 Essences (69 x 15ml bottles in 2 cardboard boxes including booklet, stickers and 2 dosage bottles):

Individual Essences (Stock) 15ml

Combination Essences 25ml

Also Available: ABFE Sprays, White Light Kit, Light Frequency Essences

#### **Bach Flower Essences**

Crystal Herbs 10ml BF Stock Kit (40 x 10ml bottles in Wooden Box, including 2 x RR)

Single Essence (Stock - 10 ml)

Rescue Remedy Single Bottle (10ml Stock)

#### **Skyflower Essences**

Individual Essences (Stock) 15ml

Combination Essences (Stock) 25ml

#### **I Am Essences**

Individual Essences (Stock - 15ml)

100 ml Spray Bottles \$28.00 each

#### **Desert Alchemy Essences**

Applied Physiology Stock Kit of 30 Essences (30 x 10ml bottles in 2 cardboard boxes):

Single Essence (Stock - 10 ml)

#### **Shell Essences**

Full Stock Kit of 44 Essences (44 x 25ml bottles in 5 cardboard boxes & manual):

Individual Essences (Stock) 25ml

125 ml Sprays

Also available – Coral Essences

#### **Essence of Change Essences**

4 x Stock Kit of 9 Essences

Individual Stock Bottles

Blends

#### **Archetypal Essences**

Full Set of 36 Stock Bottles (25ml) (Includes 1 x 50ml I Am Essence plus wooden box):

Individual Stock Bottles

#### **Renascent Gem Essences**

Full Set of 40 Stock Bottles (40 x 10 ml bottles in attractive Black Wooden box):

Individual Stock Bottles (10 ml):

### **Tuning Forks**

Ohm Tuning Forks

Meridian Tuning Forks

Chakra Tuning Forks

***please enquire***