

TEST KIT UPDATE

Autumn 2017



Equilibrium

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- 3 new test kits, one update kit and some update vials. Details below.
- Scroll down to page 2 for sale items
- See Page 4 for full pricelist
- New test contents can be viewed by scrolling down.
Contents of all kits can be viewed at: <http://www.kinesiologyshop.com/eqop3.htm>

New Test Kits

• NEW Vaccination Test Kit



Sadly the recommended vaccination schedules are including more and more vaccines, often given at the same time. This is a completely new and revised version of the previous kit with not only vials for new vaccinations but updated vials of previous vaccinations.

7 vials have been updated and there are 34 new vials.

To see the full contents list go to page 5

NOTE: If you already have the previous vaccination kit you can update to the new kit with a 'Vaccination - Update Earlier Kit' See Below.

58 vials, \$198

• PH 6D: Cranial Nerves



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.

This kit covers the cranial nerves 1 through 13 with a vial for each of the left and right sides making 26 vials.

To see the full contents list go to page 6

26 vials, \$87

• Vaccination - Update Earlier Kit

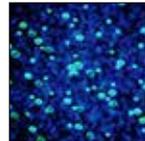


If you already have the previous version of the Vaccination Kit of 31 vials you can update to the new kit. The new kit has been totally revamped with new vial codes, such as the change in the vaccination scenario. Consequently the update kit includes 24 labels so the vials that will be transferred to the new kit can be numbered appropriately. Plus it has 34 new vials, making the 58 vials that totals the new kit

34 new vials, 24 labels & new list: \$119

• Bacteria Kit 3

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



To see the full contents list go to page 7

56 vials, \$185

SALE vials & boxes
See Next page

Vaccination Update Vials:

Each year one of the Influenza Vaccination vials in the kit is updated. In previous kits this was vial #10, but in the new kit advertised at the top above, it is now vial # 27

Vaccination 2016/2017 annual update vials (set of 2): \$15

This is two vials containing the 2016/2017 flu vaccine strains covering the two delivery methods:

1. An injection, which contains the inactivated form of the virus
2. A nasal spray of live attenuated influenza vaccine, which contains the attenuated or weakened form of the virus.

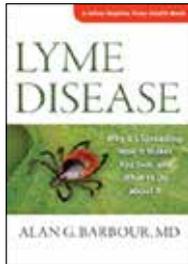
You can check the date on your vial to see how current it is. If you have not updated this for awhile you can get the.....

Vaccination 1992 to 2016/2017 update vial: \$11

This vial covers: 1992 - 2017, including both the injectable and the nasal versions for 2015/2016 and 2016/2017.

Related Books

Relating to Test Kits. Thoroughly fascinating and absorbing information:

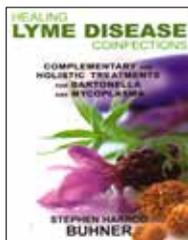


Lyme Disease

by Alan Barbour MD \$49

Why Its Spreading, How It Makes You Sick, and What to Do about It

An expert on tick-borne diseases, Alan G. Barbour explains the course of illness that results from infection, diagnosis and treatment options, and steps that can be taken to avoid a tick bite in the first place. The ticks that transmit Lyme disease may also transmit other disease-causing pathogens, and these other infections are considered as well. Featuring a list of reliable web sites and a glossary of terms, Lyme Disease is an invaluable resource for everyone who is at risk of the disease or is involved in preventing and treating it.

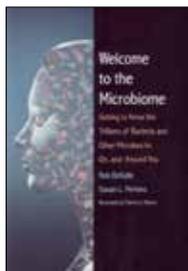


Healing Lyme Disease Coinfections

by Steven Buhner \$36

Complementary & Holistic Treatments for Bartonella & Mycoplasma.

Cutting edge research about one of the more invasive and misdiagnosed epidemics of our time. The author examines the complex synergy between different infections with detail on how they re surface after antibiotics and create cytokine cascades in the body - sending the immune system into overdrive. Effective natural, holistic methods are outlined as help in this difficult area.



Welcome to the Microbiome

by DeSalle & Perkins \$45 HC

Getting to Know the Trillions of Bacteria and other Microbes in, on and around you

This thoroughly fascinating and absorbing book explores the paradigm shift from a focus on single pathogenic organisms to understanding communities of organisms living in and on us. It presents the historical perspective and describes recent scientific developments. The authors reveal the astounding diversity of species composition that exists across body parts and systems from the skin to the digestive system and across both individuals and groups. As with any complex ecosystem, the human microbiome is composed of species playing varied roles; when a critical species begins to decline, it alters the entire ecosystem.

SALE Vials:

Meningitis C (\$5)
Mercury (\$7)
Candida Rhodotorula (\$3)
House Dust Mite (\$5)
Bartonella Alsaticca (\$3)
Gardisal (\$5)
Herpes Simplex 1 (HSV 1) Virus (\$5)
Platinum (\$3)
Pneumoccal/Prevenar (\$3)
Progesterone \$9
Testosterone \$9
Progesterone/ Testosterone/Oestrogen: (\$22 set of 3)

SALE Test Kit Boxes

We sometimes accumulate damaged Test Kit Boxes. Although damaged they are quite functional.



72 Vial Brown Cardboard Tray boxes with foam inlay: \$22 each (normally \$42 or \$35 with kits)

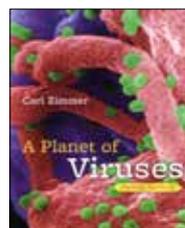
100 Vial Blue Plastic boxes (vials upright): \$7 each (normally \$16 each, or \$13 each with kits)



A Planet of Viruses

by Carl Zimmer \$28

A fascinating tour of a formidable hidden world



An eye-opening look at the hidden world of viruses. This updated edition includes the stories of new outbreaks, such as Ebola, MERS, and chikungunya virus; new scientific discoveries, such as a hundred-million-year-old virus that infected the common ancestor of armadillos, elephants, and humans; and new findings that show why climate change may lead to even deadlier outbreaks. Zimmer's lucid explanations and fascinating stories demonstrate how deeply humans and viruses are intertwined. Viruses helped give rise to the first life-forms, are responsible for many of our most devastating diseases, and will continue to control our fate for centuries. An easy, encaptivating read for such a potentially complex topic.

Biofilm Vial

We have advertised this vial previously as a single vial for purchase.
- it is not in any of the kits.

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.

This vial is \$11

Molluscum Contagiosum

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.

This vial is \$16

T Helper Cell Type 1 and 2 vials

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.

\$22 for set of 2 vials

Herpes Virus Vials List

**There are 9 herpes vials spread over the three Virus Test Kits.
A list & explanation of the group can be found below.
If you have the 3 kits this list may help with their use.**

There are eight currently identified members of the herpesvirus family - but there are nine vials as the Zoster Virus is split into Varicella Zoster and Herpes Zoster (Shingles)

They are ubiquitous and extremely well adapted pathogens. The name comes from the Greek 'herpein' - 'to creep', describing the chronic, latent or recurrent nature of infections.

Type	Virus Vial Number
Cytomegalovirus (CMV/HHV-5)	VI 2
Epstein-Barr virus (EBV/HHV-4)	VI 3
Herpes simplex type I (HSV-1)	VI 7
Herpes simplex type II (HSV-2)	VI 8
Herpes Zoster (Shingles)	VI 9
Varicella-zoster virus (VZV/HHV-3)]	VI 19
Herpesvirus type 6 (HBLV/HHV-6)	VI 55
Kaposi's sarcoma herpesvirus (KSHV/HHV-8)	VI 56
Herpesvirus type 7 (HHV-7)	VI 69

They belong to the following three families:

Alpha-herpesviruses: HSV-1 and HSV-2; VZV - these have a relatively short reproductive cycle, variable host range, efficiently destroy infected cells and establish latent infections primarily in sensory ganglia.

Beta-herpesviruses: CMV, HHV-6 and HHV-7 - these have long reproductive cycles and a restricted host range. Infected cells often enlarge. Latency can be maintained in the white cells of the blood, kidneys, secretory glands and other tissues.

Gamma-herpesviruses: EBV and HHV-8 - these are specific for either T or B lymphocytes, and latency is often demonstrated in lymphoid tissue.

PRICELIST March 2017 (basically no changes except for addition of new kits)

Test Kit Title	Price
ACU MERIDIANS TEST KIT (14 vials)	\$55
AMINO ACIDS KIT (21 vials).....	\$65
ANAESTHETIC & PAIN KIT (48 vials).....	\$169
BACH FLOWER REMEDIES (39 vials).....	\$170
BACTERIA KIT 1 (56 vials).....	\$179
BACTERIA KIT 2 (37 vials).....	\$119
BACTERIA KIT 3 (56 vials) NEW 2017	\$185
BODY BIOCHEMICAL KIT 1 (25 vials).....	\$109
BODY BIOCHEMICAL KIT 2 (25 vials).....	\$109
BODY BIOCHEMICAL KIT 3 (25 vials).....	\$109
BODY BIOCHEMICAL KIT 4 (25 vials).....	\$109
BODY BIOCHEMICAL KIT 5 (25 vials).....	\$109
BODY BIOCHEMICAL KIT 6 (25 vials)	\$109
BODY BIOCHEMICAL KIT 6 (25 vials)	\$109
CANDIDA KIT (13 vials)	\$47
CHEMICALS AND INHALANTS KIT (39vials).....	\$125
COMMON METALS KIT (24 vials)	\$78
CYTOKINE & IMMUNE TEST KIT (40 vials) NEW	\$179
DENTAL KIT (50 vials).....	\$166
DIGESTIVE ENZYME KIT (16 vials)	\$55
DRINKS: ALCOHOL A (26 vials).....	\$86
DRINKS: ALCOHOL B (21 vials)	\$69
EARTH ENERGIES (7 vials)	\$26
ELECTROMAGNETIC (14 vials).....	\$55
ELEMENTS KIT (103 vials).....	\$289
EMOTIONAL STATES COMPOSITE (10 vials).....	\$45
ESSENTIAL OILS KIT A (37 vials)	\$119
ESSENTIAL OILS KIT B (37 vials).....	\$119
FOOD ADDITIVE KIT A (31 vials).....	\$99
FOOD ADDITIVE KIT B (25 vials).....	\$85
FOODS TEST KIT A (56 vials).....	\$175
FOODS TEST KIT B (52 vials).....	\$165
FOODS TEST KIT C (50 vials).....	\$155
FOODS TEST KIT D (42 vials)	\$135
FOODS TEST KIT E (25 vials)	\$79
FOODS TEST KIT F (25 vials)	\$79
FOODS TEST KIT G (50 vials)	\$165
FOOD PHENOLIC COMPOUNDS KIT (14 vials)	\$55
FOOD - MILK & MILK SUBS (18 vials)	\$65
FOOD - MUSHROOMS (14 vials)	\$55
FOOD - PULSES (19 vials).....	\$65
FRAGRANCE KIT (27 vials)	\$95
FUNGUS, PROTO, RICKS & CHLAM KIT 1 (30 vials) .	\$99
FUNGUS etc. KIT 2 (30 Vials)	\$99
FUNGUS Kit 3 (24 vials)	\$95
HUMAN HISTOLOGY - Healthy Tissues (75 Vials)	\$269
HOMEOPATHIC KIT A (54 vials).....	\$210
HOMEOPATHIC KIT B (50 vials).....	\$198
HORMONE TEST KIT (30 vials).....	\$98
IMMUNOGLOBULIN KIT (5 vials)	\$29
INDUSTRIAL & ENVIRO CHEMICALS 1 (25 vials)	\$85
INDUSTRIAL & ENVIRO CHEMICALS 2 (25 vials)	\$85
INDUSTRIAL & ENV. CHEM. 3 (25 vials).....	\$85
INDUSTRIAL & ENV. CHEM. 4 (25 vials)	\$85
INTERLEUKINS (14 vials)	\$69
INVASIVE ORGANISMS - COMPOSITES (8 vials)	\$39
LECTINS (7 vials)	\$37
LYME TEST KIT (61 vials).....	\$215
MAUI ESSENCES KIT (24 vials).....	\$79
MEDICINAL HERBS KIT (50 vials)	\$165

MED. HERBS for WOMEN KIT (25 vials).....	\$83
MYCOTOXINS (27 vials)	\$98
NEUROTRANSMITTER (13 vials)	\$47
NUTRITION KIT 1 (21 vials).....	\$69
NUTRITION KIT 2 (25 vials).....	\$85
PARASITE KIT 1 (31 vials).....	\$110
PARASITE KIT 2 (35 vials)	\$120
PARASITE KIT 3 (28 vials) NEW 2016	\$105
PERSONAL CARE KIT (31 Vials)	\$110
PESTICIDE KIT 1 (25 vials)	\$105
PESTICIDES KIT 2 (25 vials).....	\$105
PESTICIDES KIT 3 (25 vials).....	\$105
POLLENS, DUST AND MOULDS KIT 1 (22 vials)	\$79
POLLENS ETC. KIT 2 (28 vials)	\$95
PROTOZOA TEST KIT (37 vials) NEW 2016.....	\$147
RECREATIONAL DRUGS KIT (14 vials).....	\$45
SALICYLATES KIT (10 vials)	\$44
SIBO TEST KIT (25 vials) NEW 2016.....	\$85
SWEETENERS TEST KIT (24 vials)	\$95
VACCINATION KIT (58 vials) UPDATED 2017	\$198
VIRUS KIT 1 (21 vials)	\$69
VIRUS KIT 2 (25 vials)	\$85
VIRUS KIT 3 (25 vials) 4 new vials 2016	\$85
WEIGHT TEST KIT (38 vials).....	\$149

Pathology Histology Test Kits

P/H KIT 1: RESPIRATORY SYSTEM (25 vials)	\$89
P/H KIT 2: LOWER DIGESTIVE (28 vials).....	\$99
P/H KIT 3: UPPER DIGESTIVE (31 vials).....	\$109
P/H KIT 4: ENDOCRINE (27 vials).....	\$95
P/H KIT 5: GALL BLADDER & LIVER (28 Vials).....	\$99
P/H KIT 6: BRAIN & NERVOUS SYSTEM (25 vials) ...	\$89
P/H KIT 6B: MORE BRAIN (50 vials)	\$211
P/H KIT 6C: YET MORE BRAIN (26 vials)	\$110
P/H KIT 6C: CRANIAL NERVES (26 vials) New 2017	\$85
P/H KIT 7: SKELETAL SYSTEM (25 Vials)	\$89
P/H Kit 7B: VERTEBRAE (34 vials)	\$123
P/H KIT 8: MUSCLE &CONNECTIVE (26 vials)	\$94
P/H KIT 9: URINARY (33 vials)	\$115
P/H KIT 10: LYMPH, BLOOD, IMMUNE (37 vials).....	\$125
P/H KIT 11: CIRCULATORY (27 Vials).....	\$95
P/H KIT 12: FEMALE BREAST (25 vials).....	\$89
P/H KIT 13: FEMALE REPRODUCTIVE (33 Vials).....	\$115
P/H KIT 14: MALE REPRODUCTIVE (25 vials).....	\$89
P/H KIT 15: NEONATAL, PREGNANCY (21 vials).....	\$75
P/H KIT 16: EARS,NOSE,EYES,MOUTH (25 vials).....	\$89
P/H KIT 17: SKIN (26 vials).....	\$94

Price Structure on Purchases

Discounts are available on the number of kits purchased. This is cumulative (not per order).

1- 9 kits: Retail price, 10 or more kits: 10% off Retail

Boxes

72 vial flat foam inlay cardboard box: \$42, \$35 with kits
 100 vial plastic vials upright box: \$16, \$13 with kits
 50 vial plastic vials upright box: \$12, \$9 with kits

Empty Vials

Empty vials for Liquids: \$52 per 100 pack
 Empty vials for Solids: \$69 per 100 pack

New & Revised Vaccination Test Kit

58 vials

The energy patterns of most of the childhood vaccines, plus influenza, HPV, H1N1 and some travel vaccines. This kit was extensively revised in 2016. 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 /		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 Adsorbed
VAR 11	DPT + HIB		Diphtheria + Whooping Cough + Tetanus + Haemophilus Influenzae Type B
VAR 12	DPT + Polio	Infanrix Tetra	Diphtheria + Whooping Cough + Tetanus + Polio
VAR 13	DPT + Polio	Repevax	Diphtheria + Whooping Cough + Tetanus + Polio
VAR 14	DPT + Polio Booster	Boostrix	Diphtheria + Whooping Cough + Tetanus + Polio
VAR 15	DPT Adsorbed		Diphtheria + Acellular Whooping Cough + Tetanus Toxoids
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 2015/2016		Influenza
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

PH 6D: Cranial Nerve Test Kit

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.

Code	Nerve Number			
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

Bacteria Kit 3

56 vials

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

Code	Name & Comment
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) <i>A. baumannii</i> 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 <i>F. nucleatum</i> ; 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. Freundii* 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 Sporgenes*** 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 potential 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.