

GENOVA DIAGNOSTICS EUROPE

Directory of Laboratory Testing Services



GENOVA
DIAGNOSTICS[®]
EUROPE

Based in the UK, Genova Diagnostics Europe was formed when Genova Diagnostics and IWDL (Individual Wellbeing Diagnostics Laboratories) merged in 2007 to offer significant benefits to both the practitioner and their patients. Genova Diagnostics is a global leader in functional laboratory testing and a pioneer in innovative approaches to personalised medicine.

Our dedication to innovation leads us to continuously review our extensive portfolio of tests - and constantly develop advanced new profiles. As a result, we are able to offer the most comprehensive and clinically useful product range.

Unlike traditional laboratories that focus solely on disease pathology, Genova offers comprehensive panels that combine standard and innovative test components to provide a more comprehensive understanding of specific biological systems. As more patients take an active role in managing their health and clinicians focus on prevention, these diagnostic tests provide a more complete picture of the health of the individual and help identify problems before chronic conditions and disease develop.

Detailed graphic reports facilitate practitioner-patient communication and the development of a personalised approach to optimal health. Combining 30 years of experience, our laboratories are committed to the highest professional standards, with teams of medical experts providing technical support to healthcare professionals, as well as a robust array of educational resources.

Genova is registered and licensed by the Care Quality Commission (CQC): the independent regulator of health and social care in England. The CQC regulates care provided by the NHS, local authorities, private companies and voluntary organisations.

ADDRESS DETAILS

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Email

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Telephone

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Fax

020 8336 7751

24hr Kit Order Line

020 8336 7754

OPENING HOURS Monday to Friday 9am – 5pm

CLIENT SERVICES

020 8336 7750

URL

www.gdx.uk.net

TO ORDER KITS

kitorders@gdx.net

LABORATORY LEADERSHIP

Scott Madel

Managing Director

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PRACTITIONER AND CLINICAL SUPPORT

Genova Diagnostics Europe aims to offer clinicians complete support to assist them with their practice. We pride ourselves on the excellent service offered by our support team and invite all clinicians to take advantage of this invaluable service. Our clinical support services are overseen by medical consultants. The clinician support team can provide information on our extensive range of tests and profiles. For newly registered clinicians it may be advisable to arrange a consultation with the support team.

The clinician support team are available between 9.00am-5.00pm, Monday to Friday, to assist clinicians with all enquiries. Appointments must be booked in advance.

EDUCATIONAL SUPPORT

Genova Diagnostics Europe provide various of support for clinicians and their patients

- Test information sheets
- Patient brochures
- Sample laboratory reports
- Interpretation guidelines
- MyGDX.net
- Regular lectures and education days
- Informal workshops for individuals or groups

KIT ORDERS & REFERRAL FORMS

Ordering a Kit:

Email: kitorders@gdx.net with all patient and test kit order information. You will receive a confirmation email on receipt of the order.

Phone: 24-hour kit order line: 020 8336 7754.

Fax: Test Kit order forms can be faxed to 020 8336 7208, or given to the patient for them to place the order with us directly (see: E-commerce).

E-commerce: It is possible for patients to order their kits directly from the e-commerce section of our website, by using their clinician's account number (please contact the laboratory for this number). The patient will pay for the test kit at the time of ordering, and return the samples to us for processing in the usual way.

TEST INFORMATION

Most tests can be conducted in the patients home, with the exception of blood samples, which will need to be taken by a qualified phlebotomist. Sample requirements and patient preparation (fasting, stopping supplements etc) vary from test to test. General guidelines are specified throughout the Professional Guide, however please check our website for full test instructions, which are also included with the test kit. Please note: prescription medication should not be stopped unless under the supervision of a doctor.

RETURNING SAMPLES TO THE LABORATORY

Most of the tests are available as a postal kit. Each kit comes with a complete specimen collection kit and detailed collection instructions.

All samples must be returned in the containers provided by GDX, and be clearly labelled with the patient's full name, date of birth and sample date and time collected.

Samples should be returned to the laboratory by Next Day Delivery, Monday – Thursday only. Samples received outside of the suggested postage dates may be discarded and the patient asked to repeat the test.

SAMPLE REQUIREMENTS

The following sample requirements are compulsory. Failure to follow these will result in the sample being rejected:

- Requisition form must be completed correctly and submitted with the samples. The form must include patient's full name (first and last), date of birth, practitioner details, name of test ordered, and must be signed by the patient.
- Sample must be clearly labelled with full name, date of birth and collection date and time.
- Sample details must match those on test requisition form.
- Quantity of sample must be sufficient.
- Total volume of urine must be recorded (where requested).
- Correct sample must be taken.
- Samples must not take longer than 24 hours from posting to reach us.

DATA PROTECTION ACT

Genova Diagnostics Europe are fully compliant with the Data Protection Act and registered with the information commissions office.

COMPLAINTS PROCEDURE

Should you have a complaint about any of our services, Genova Diagnostics Europe operates a complaints procedure. In the first instance, please call or email client services, your complaint will be tracked.

FACTORS THAT COMPROMISE SPECIMENS/ASSAYS

- The below factors may result in a sample being rejected.
- Haemolysis (damaged red blood cells) serum or plasma will be light pink to bright red
- Lipaemia (excessive lipids) in the blood produce a cloudy or milky specimen
- Quantity not sufficient (QNS)
- A minimum amount of specimen is required to perform tests accurately.

TURNAROUND TIMES

The Turnaround Time (TAT) for each test is given throughout this Professional Guide.

REQUESTING ADDITIONAL TESTS

All samples are kept at least until the report has been issued. Additional tests may be requested during this time. This will be dependent on sample type, stability and volume of the sample available. When required, please contact the laboratory for further information.

PAYMENT TERMS

Genova Diagnostics Europe offers 3 payment options:

1. Payment Direct: Patient's pay Genova Diagnostics directly.
2. Credit Card Account: Payment will be taken from the clinician's registered credit card on receipt of samples from patient.
3. Monthly Accounts: The practitioner will be invoiced at the end of each month for any samples returned to the lab within that time frame. This account is subject to status, and strictly 30 days notice applies. Failure to settle accounts will result in termination of the account.

HEALTH INSURANCE

Genova Diagnostics Europe are a recognised laboratory for the reimbursement of tests through private medical insurance, subject to individual insurance policies and specialist referrals.

PATIENT RESULTS

Genova Diagnostics Europe will only report results to the clinician who has ordered the test for the patient. Results are available on-line through the clinician's MyGDX.net. If a patient contacts the laboratory for results, they will be referred back to their clinician. Results may be emailed upon request. ALL patient enquiries relating to result interpretation will be referred to the practitioner.

INTERNATIONAL CLINICIANS

Clinicians based outside of the UK can access Genova Diagnostics Europe's services. We would ask clinicians to confirm sample requirements and to consider the length of time it will take to get the sample to Genova Diagnostics Europe. It may be necessary to use a courier service such as DHL or FEDEX. Results will be emailed to overseas clinicians.

REFERRALS LIST

The majority of our profiles are run by Genova Diagnostics laboratories, however, in some instances, analytes may be referred to the following external laboratories, which are CPA registered or equivalent:

IN	INFAI UK Ltd. Innovation Centre York Science Park, University Road Heslington, York, YO10 5DG
LC	London Clinic 20 Devonshire Place London W1G 6JA
BIO	Biomnis 7 Impasse Du Vercors 69007 Lyon, France

SPECIMEN REQUIREMENT INDEX

Specimen requirements vary for each test. Each test kit comes with the required tubes and full instructions, however the following is a list of possible containers with necessary volumes:

BLOOD TUBES

EDTA	4ml, 6ml, 10ml
Fluoride oxalate	4ml Lithium
Heparin	7ml, 10ml,
Serum	10ml
Sodium Heparin	7ml, 10ml
Homocysteine tube	2ml
Black top lipid tube (BBT)	5ml
Trace element free heparin	6ml
Trace element free EDTA	6ml
Sodium citrate	4.5ml
Blood spot collection	

SALIVA SAMPLES

Plain saliva	2ml
Salivette	2ml
Buccal Swab	

URINE SAMPLES

Sample sizes will vary for urine tests depending on whether it is a first morning void (FMV), 24 hour collection, or timed collection. The test kit will be supplied with the appropriate sample tube(s) and full instructions.

Tube	3ml, 4ml, 10ml, 15ml
Urine Collection Cup	

STOOL SAMPLES

Cary Blair tube	30ml
Formalin tube	30ml
SAF tube	15ml
Neat Vial - No preservative	30ml
CNS Vial	30ml

REFERENCE RANGES

All reference ranges are available on the website www.gdx.uk.net

Adrenal - Thyroid Profile	49	IgG Food Panel	14
Adrenal Stress Profile	47	IgG Spices	14
Allergix® Bloodspot IgG4 Food Antibodies – 30 Profile	13	ImmunoGenomic® Profile	53
Allergix® IgG4 Food Antibodies - 90 Antigens	13	ION® Profile	18
Amino Acids 20 Profile	29	ION™ Profile with Amino Acids 40	18
Amino Acids 40 Profile	29	Lipid Peroxides (TBARS)	43
Amino Acids Analysis, Plasma.....	29	Macroscopic Examination for Worms	9
Amino Acids Analysis, Urine	29	Male Hormonal Health™	44
Bloodspot Amino Acids 11 Profile.....	29	Male Hormones Plus™	47
Bloodspot Amino Acids 20 Profile	29	Melatonin Profile	48
Bloodspot Fatty Acids Profile	31	Menopause Plus™	46
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CDSA/P™	7	NutrEval®	18
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Chronic Fatigue Screen	36	Oestrogen Metabolism Assessment.....	50
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Comprehensive Adrenal Stress Profile.....	48	ONE (Optimal Nutritional Evaluation®)	18
Comprehensive Cardiovascular Assessment.....	37	One Day Hormone Check.....	52
Comprehensive Elemental Profile - Urine	41	One Day Progesterone/Oestradiol.....	47
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DetoxiGenomic® Profile	54	Oxidative Stress 2.0, Blood.....	43
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Elemental Analysis	40	Parasitology.....	8
Essential & Metabolic Fatty Acids Analysis.....	31	Porphyryns Profile	41
Essential Oestrogens FMV/24Hr.....	50	Reverse T3	44
EstroGenomic® Profile	53	Rhythm Plus™	46
Estronex® Profile	51	Rhythm™	46
Estronex® Profile with Bone Resorption Assay	51	Secretory Immunoglobulin A (sIgA).....	15
Fat-Soluble Vitamins Profile	33	Testosterone.....	49
Fatty Acids Erythrocytes	31	Thyroid Plus.....	45
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Functional Blood Chemistry Profile	37	Toxic Metals	40
GI Effects® Comprehensive (Includes 2205).....	3	TRIAD™ Bloodspot Profile.....	19
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Helicobacter pylori Stool Antigen HpSA.....	10	Urine Thyroid Hormones (T3/T4).....	51
Homocysteine	34	Urine Thyroid Hormones (T3/T4) + Iodine	51
Hormonal Health™	44	Vitamin B12 & Folate	34
IBStatus	10	Vitamin D.....	33
IgE Food Panel	14		
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2200 GI Effects® Comprehensive (Includes 2205)**Description:**

GI Effects® Stool Analysis Profiles use DNA analysis to identify commensal bacteria plus yeast and fungi. Markers of digestion, inflammation and absorption are also included. Parasitology is done by microscopic exam and EIA. Pathogens (C. difficile, H. pylori, Shiga toxin E. coli, and Campylobacter spp.) are available as EIA add-ons.

Test Components:

See Pages 11 - 12

Add-on Profiles:

Campylobacter EIA	Escherichia coli EIA	Stool Zonulin
Clostridium difficile EIA	Helicobacter pylori EIA	

Test Components:**Digestion and Absorption**

Pancreatic Elastase 1
 Products of Protein Breakdown (Total)
 (Valerate+Isobutyrate+Isovalerate)
 Fecal Fat (Total)
 Triglycerides
 Long Chain Fatty Acids
 Cholesterol
 Phospholipids

Inflammation and Immunology

Calprotectin
 Eosinophil Protein X (EPX)
 Fecal sIgA

Metabolic

SCFA (Total) (Acetate, n-Butyrate, Propionate)
 n-Butyrate Concentration
 n-Butyrate %
 Acetate %
 Propionate %
 Beta- glucuronidase

Gastrointestinal Microbiome**Commensal Bacteria (PCR)****Bacteroides-Prevotella group**

Bacteroides vulgatus
Barnesiella spp.
Odoribacter spp.
Prevotella spp.

Firmicutes Phylum

Anaerotruncus colihominis
Butyrivibrio crossotus
Clostridium spp.
Coprococcus eutactus
Faecalibacterium prausnitzii
Lactobacillus spp.
Pseudoflavonifractor spp.
Roseburia spp.
Ruminococcus spp.
Veillonella spp.

Actinobacteria Phylum

Bifidobacterium spp.
Bifidobacterium longum
Collinsella aerofaciens

Specimen Type:

Stool

TAT:

19 days

Patient Requirements:

This test is not recommended for children under 24 months. Please refer to full instructions sent with the kit.

Proteobacteria Phylum

Desulfovibrio piger
Escherichia coli
Oxalobacter formigenes
Euryarchaeota Phylum
Methanobrevibacter smithii

Fusobacteria Phylum

Fusobacterium spp.
Verrucomicrobia Phylum
Akkermansia muciniphila
 Firmicutes/Bacteroidetes (F/B Ratio)

Bacteriology**Mycology (Yeast/Fungi)****Parasitology**

Microscopic Exam Results
 Parasitology EIA Tests

Other Biomarkers

Fecal Occult Blood
 Color
 Consistency

2205 GI Effects® Microbial Ecology Profile**Description:**

GI Effects® Stool Analysis Profiles use DNA analysis to identify commensal bacteria plus yeast and fungi. Parasitology is done by microscopic exam and EIA. Pathogens (C. difficile, H. pylori, Shiga toxin E. coli, and Campylobacter spp.) are available as EIA add-ons.

Test Components:

See Pages 11 - 12

Add-on Profiles:

Campylobacter EIA	Escherichia coli EIA	Stool Zonulin
Clostridium difficile EIA	Helicobacter pylori EIA	

Test Components:**Gastrointestinal Microbiome****Commensal Bacteria (PCR)****Bacteroides-Prevotella group**

Bacteroides vulgatus
Barnesiella spp.
Odoribacter spp.
Prevotella spp.

Firmicutes Phylum

Anaerotruncus colihominis
Butyrivibrio crossotus
Clostridium spp.
Coprococcus eutactus
Faecalibacterium prausnitzii
Lactobacillus spp.
Pseudoflavonifractor spp.
Roseburia spp.
Ruminococcus spp.
Veillonella spp.

Commensal Bacteria (PCR)**Actinobacteria Phylum**

Bifidobacterium spp.
Bifidobacterium longum
Collinsella aerofaciens

Proteobacteria Phylum

Desulfovibrio piger
Escherichia coli
Oxalobacter formigenes

Euryarchaeota Phylum

Methanobrevibacter smithii

Fusobacteria Phylum

Fusobacterium spp.

Verrucomicrobia Phylum

Akkermansia muciniphila
 Firmicutes/Bacteroidetes (F/B Ratio)

Specimen Type:

Stool

TAT:

19 days

Patient Requirements:

This test is not recommended for children under 24 months. Please refer to full instructions sent with the kit.

Bacteriology**Mycology (Yeast/Fungi)****Parasitology**

Microscopic Exam Results
 Parasitology EIA Tests

Other Biomarkers

Fecal Occult Blood
 Color
 Consistency
 Mic Sensitivities, Yeast or Bacteria

DIG01 CDSA™ - Comprehensive Digestive Stool Analysis**Description:**

This comprehensive analysis evaluates digestion, absorption, gut flora, and the colonic environment including immunology. The profile is indicated for all chronic GI problems, acute bowel pattern changes, for many systemic diseases, whilst also providing a sensitivity panel for treating pathogenic flora.

Patient Requirements:

This test is not recommended for children under 24 months

NB: Some medications will directly affect this test. These include steroids, NSAIDs, and aspirin. Prescription medication should not be stopped unless under supervision of a doctor. Please refer patient to full instructions sent with the test kit.

Test Components:

See Pages 11 - 12

Specimen Type:

Stool

TAT:

16 days

DIG02 CDSA/P™ - Comprehensive Digestive Stool Analysis/Parasitology**Description:**

This CDSA (as above) includes an evaluation for parasites using microscopic examination and EIA testing.

Patient requirements:

This test is not recommended for children under 24 months

NB: Some medications will directly affect this test. These include steroids, NSAIDs, and aspirin. Prescription medication should not be stopped unless under supervision of a doctor. Please refer patient to full instructions sent with the test kit.

Test Components:

See Pages 11 - 12

Specimen Type:

Stool

TAT:

16 days

DIG03 CDSA 2.0™ - Comprehensive Digestive Stool Analysis 2.0 w/o Parasitology**Description:**

The CDSA2.0 evaluates digestion, absorption, gut flora and the colonic environment including immunology and inflammation. The "gold-standard" analysis of digestive function and gut microbial ecology offers comprehensive non-invasive risk assessment for colorectal cancer, differential diagnosis between inflammatory bowel disease and irritable bowel syndrome, and an assessment of exocrine pancreatic function. The profile is indicated for all chronic GI problems, acute bowel pattern changes for many systemic diseases and provides a sensitivity panel for treating pathogenic flora.

Patient Requirements:

This test is not recommended for children under 24 months

NB: Some medications will directly affect this test. These include steroids, NSAIDs, and aspirin. Prescription medication should not be stopped unless under supervision of a doctor. Please refer patient to full instructions sent with the test kit.

Test Components:

See Pages 11 - 12

Specimen Type:

Stool

TAT:

16 days

DIG04 CDSA/P 2.0™ - Comprehensive Digestive Stool Analysis 2.0/Parasitology

Description:

This CDSA 2.0 incorporates a microscopic assessment for parasites and evaluates for some specific parasites using EIA testing.

Patient Requirements:

This test is not recommended for children under 24 months

NB: Some medications will directly affect this test. These include steroids, NSAIDs, and aspirin. Prescription medication should not be stopped unless under supervision of a doctor.

Test Components:

See Pages 11 - 12

Add-ons

Stool Zonulin

Specimen Type:

Stool

TAT:

16 days

DIG05 Comprehensive Parasitology Profile (CP)

Description:

The Comprehensive Parasitology assesses bacteriology, mycology, parasitology and infectious pathogens. A sensitivity panel using natural and prescriptive agents is carried out for any bacteria or yeast found.

Patient Requirements:

This test is not recommended for children under 24 months. Please refer to full instructions sent with the kit.

Test Components:

Microbiology

Bacteriology Culture, aerobic
 Bacteriology Culture, anaerobic
 Yeast Culture
 Prescriptive Antibiotic Susceptibility
 Natural Agent Growth Inhibitors

Parasitology

Parasite Identification, Concentrate Prep
 Parasite Identification, Trichrome Stain
 Cryptosporidium EIA
 Entamoeba histolytica EIA
 Giardia lamblia EIA

Specimen Type:

Stool

TAT:

16 days

DIG06 Parasitology

Description:

The parasitology test looks for parasites and infectious pathogens using a microscopic examination.

Patient Requirements:

This test is not recommended for children under 24 months. Please refer to full instructions sent with the kit.

Test Components:

Parasite Identification, Concentrate Prep
 Parasite Identification, Trichrome Stain

Add-ons

Cryptosporidium EIA
 Giardia lamblia EIA

Specimen Type:

Stool

TAT:

12 days

DIG07 Microbiology Profile**Description:**

Evaluates stool for levels of beneficial flora, imbalanced flora, yeast, pathogenic bacteria, faecal bacteria and yeast cultures, sensitivities as appropriate.

Patient requirements:

This test is not recommended for children under 24 months. Please refer to full instructions sent with the kit.

Test Components:

Bacteriology Culture, aerobic
Bacteriology Culture, anaerobic
Yeast Culture

Specimen Type:

Stool

TAT:

16 days

DIG08 Macroscopic Examination for Worms**Description:**

Examination for worms.

Patient Requirements:

Note: Where possible, sample should contain suspected worm/piece. Please refer to full instructions sent with the kit.

Test Components:

Adult Cestodes
Nematodes
Macroscopic Worms
Worm Pieces

Specimen Type:

Stool

TAT:

16 days

DIG09 Calprotectin**Description:**

Calprotectin is a highly sensitive biomarker for evaluating inflammation of the gastrointestinal tract. The United States Food and Drug Administration (FDA) 501(K) cleared marker is intended to differentiate Irritable Bowel Syndrome (IBS) from Inflammatory Bowel Disease (IBD). Calprotectin is the non-invasive gold standard for assessment of gastrointestinal inflammation and is a useful clinical tool for identifying patients who warrant further GI evaluation.

Patient Requirements:

Steroids and other anti-inflammatory medication (including aspirin and NSAIDs) should be avoided for at least 48 hours prior to testing. Do not discontinue prescription medication unless under the supervision of a doctor. Please refer to full instructions sent with the kit.

Specimen Type:

Stool

TAT:

10 days

DIG10 Gut Immunology**Description:**

Evaluates immunological imbalance specific to gastrointestinal tract inflammatory disease activity.

Calprotectin is effective in distinguishing IBD, IBS and gastrointestinal neoplasm. Eosinophil Protein X reflects IgE-mediated inflammation. Fecal EPX elevations can be associated with several conditions including IBD, IgE-mediated food allergies, parasite or worm infections and collagenous colitis.

Test Components:

Calprotectin
Eosinophil Protein X

Specimen Type:

Stool

TAT:

10 days

Patient Requirements:

Please refer to full instructions sent with the kit.

DIG11 Helicobacter pylori Stool Antigen HpSA**Description:**

Helicobacter Pylori is a bacterial infection strongly associated with persistent stomach inflammation. Such inflammation can significantly increase the risk of stomach or duodenal ulcer formation. The stool test is a convenient, non-invasive way of testing for H. Pylori with high sensitivity and specificity. Stool testing is appropriate for both diagnosis and follow-up testing.

Patient Requirements:

Allow a minimum of 2 weeks after treatment for monitoring therapy. Avoid all nutritional supplements and non-steroidal anti-inflammatory medication 48 hrs prior to testing. Proton pump inhibitors do not affect results. Please refer to full instructions sent with the kit.

Note: Do not discontinue prescription medication unless under the supervision of a doctor.

Specimen Type:

Stool

TAT:

10 days

DIG12 Helicobacter Pylori Breath Test**Description:**

A Helicobacter Pylori infection (as described above) can also be tested through a breath sample. The breath test procedure is a highly accurate and non-invasive diagnostic tool utilising a C13 urea powder, to detect the presence or absence of an active Helicobacter Pylori infection in the human stomach. It can be used soon after completing treatment.

Patient Requirements:

Patients should not be taking any antibiotics. Patients should wait at least 4 weeks after antibiotic therapy and 2 weeks after the last administration of proton pump inhibitors or H2 blockers.

Test Components:

C13 Urea Pre & Post

Note: Prescription medication should not be stopped or changed unless under the supervision of a doctor. Please refer to full instructions sent with the kit.

Specimen Type:

Breath

TAT:

7 days

DIG 15 IBStatus**Description:**

IBStatus offers a concise look at the overall health of the gastrointestinal (GI) tract. It is a non-invasive evaluation that uses biotechnology to evaluate digestion, absorption, inflammation, and parasite infection. This test is designed to specifically help identify inflammatory conditions (including subclinical inflammation) associated with Inflammatory Bowel Disease (IBD), NSAID enteropathy, and post-infectious Irritable Bowel Syndrome (IBS).

Patient requirements:

Please refer the patient to full instructions sent with the test kit.

Optional Add-On's

H. Pylori, EPX

Specimen Type:

Stool

TAT:

16 days

Test Components:

Calprotectin
Clostridium difficile
Cryptosporidium EIA
Giardia lamblia EIA
Occult Blood
Pancreatic Elastase 1
Parasitology (microscopic)
Entamoeba histolytica EIA

Gastrointestinal Profiles Biomarkers Comparison Table						
BIOMARKERS REPORTED	GI Effects 2200	GI Effects 2205	CDSA	CDSA/P	CDSA/P 2.0	CDSA 2.0 w/o P
Digestion/Absorption						
Digestion						
Pancreatic Elastase 1	•		+	+	•	•
Chymotrypsin					+	+
Putrefactive SCFA			•	•	•	•
Meat Fibers			•	•		
Vegetable Fibers			•	•		
Products of Protein Breakdown (Total) (Valerate+Isobutyrate+Isovalerate)	•					
Absorption						
Long Chain Fatty Acids	•		•	•		
Fecal Fat (Total)	•				+	+
Triglycerides	•		•	•		
Phospholipids	•		•	•		
Cholesterol	•		•	•		
Gut Immunology						
Calprotectin	•		+	+	•	•
Eosinophil Protein X (EPX)	•		+	+	•	•
Fecal sIgA	•					
Metabolic						
SCFA (Total*) (Acetate, n-Butyrate, Propionate)	•		•	•	•	•
n-Butyrate Concentration	•		•	•	•	•
n-Butyrate %	•					
Acetate%	•					
Propionate%	•					
pH			•	•	•	•
SCFA Distribution	•		•	•	+	+
Beta- glucuronidase	•		•	•	•	•
Bile Acids			+	+	•	•
Inflammation						
Lactoferrin	+	+	•	•		
Mucus			•	•		
Gastrointestinal Microbiome						
Commensal Bacteria (PCR)						
<i>Bacteroidetes</i> Phylum	•	•				
<i>Bacteroides-Prevotella</i> group	•	•				
<i>Bacteroides vulgatus</i>	•	•				
<i>Barnesiella</i> spp.	•	•				
<i>Odoribacter</i> spp.	•	•				
<i>Prevotella</i> spp.	•	•				
Firmicutes Phylum	•	•				
<i>Anaerotruncus colihominis</i>	•	•				
<i>Butyrivibrio crossotus</i>	•	•				
<i>Clostridium</i> spp.	•	•				
<i>Coprococcus eutactus</i>	•	•				
+ Add-on's at additional cost						

Gastrointestinal Profiles Biomarkers Comparison Table						
BIOMARKERS REPORTED	Gi Effects 2200	Gi Effects 2205	CDSA	CDSA/P	CDSA/P 2.0	CDSA 2.0 w/o P
Commensal Bacteria (PCR)						
<i>Faecalibacterium prausnitzii</i>	.	.				
<i>Lactobacillus</i> spp.	.	.				
<i>Pseudoflavonifractor</i> spp.	.	.				
<i>Roseburia</i> spp.	.	.				
<i>Ruminococcus</i> spp.	.	.				
<i>Veillonella</i> spp.	.	.				
Actinobacteria Phylum						
<i>Bifidobacterium</i> spp.	.	.				
<i>Bifidobacterium longum</i>	.	.				
<i>Collinsella aerofaciens</i>	.	.				
Proteobacteria Phylum						
<i>Desulfovibrio piger</i>	.	.				
<i>Escherichia coli</i>	.	.				
<i>Oxalobacter formigenes</i>	.	.				
Euryarchaeota Phylum						
<i>Methanobrevibacter</i> spp.	.	.				
Fusobacteria Phylum						
<i>Fusobacterium</i> spp.	.	.				
Verrucomicrobia Phylum						
<i>Akkermansia muciniphila</i>	.	.				
<i>Firmicutes/Bacteroidetes (F/B Ratio)</i>	.	.				
Bacteriology
Mycology (Yeast/Fungi)
Parasitology						
Microscopic Exam Results	
Parasitology EIA Tests	
Other Biomarkers						
Occult Blood	.		.	.	+	+
Color	.		.	.		
Consistency	.					
<i>Campylobacter</i>	+	+				
Shiga Toxin <i>E. Coli</i>	+	+				
<i>Clostridium difficile</i> EIA	+	+	+	+	+	+
<i>Helicobacter pylori</i> Stool Antigen	+	+	+	+	+	+
Macro for Worms			+	+	+	+
Mic Sensitivities, Yeast or Bacteria	.					
Stool Zonulin	.	.			.	
+ Add-on's at additional cost						

0075 Allergix® IgG4 Food Antibodies - 90 Antigens**Description**

The Allergix® IgG4 antibody is related to “delayed” or nonatopic food reactions that exacerbate or contribute to many different health problems. Simultaneous high levels of many IgG4 food-specific antibodies is generally associated with intestinal hyperpermeability. This profile measures the IgG4 levels in serum that react to 90 different foods; including commonly eaten foods such as corn, milk, egg and wheat. A food reaction patient guide is provided with each test result.

Patient Requirements:

Please refer to full instructions sent with the kit.

Test Components:

See Pages 16 - 17

Specimen Type:

Serum

TAT:

16 days

0076 Allergix® Bloodspot IgG4 Food Antibodies – 30 Profile**Description:**

The Bloodspot IgG4 Food Antibody Assay is a blood spot test that measures the total IgG4 levels that react to common food antigens. The test kit is simple enough for the patient to use at home.

Patient Requirements:

Please refer to full instructions sent with the kit.

Test Components:

See Pages 16 - 17

Specimen Type:

Blood spot

TAT:

16 days

IMM27 IgG Food Antibodies + IgE Foods**Description:**

The powerful combination of IgG Foods, IgE Foods, and IgE Inhalents illuminates most of the possible reactions a patient can experience from food or inhaled allergies. This allows the widest scope of clinical evidence from which the clinician can determine protocols.

Test Components:

Full components for this profile are listed separately in IMM26 and IMM12 on page 16 and 17

Specimen Type:

Blood

TAT: 7 days**Patient Requirements:**

Please refer to full instructions sent with the kit.

IMM26 IgE Food Panel

Description:

The IgE antibody is the cause of “classic” or atopic allergic reactions and is well known for causing immediate allergic reactions. The IgE Food Antibodies Profile measures the IgE levels in serum that react to different foods. Food categories include dairy, grains, nuts and seafood.

Patient Requirements:

Please refer to full instructions sent with the kit.

Test Components:

See Pages 16 - 17

Specimen Type:

Serum

TAT:

7 days

Add-on

Serum Zonulin

IMM12 IgG Food Panel

Description:

IgG antibodies are associated with ‘delayed’ or non-atopic food reactions that exacerbate or contribute to many different health problems. Simultaneous high levels of many IgG food-specific antibodies can also be associated with intestinal hyperpermeability. This IgG Food Panel measures total IgG antibodies for 87 foods.

Patient Requirements:

It is suggested that the patient eat a variety of foods for 2-3 weeks prior to food antibody testing (EXCEPT for foods that are known to cause severe reactions) to ensure the presence of antibodies to problematic foods. Steroid medication (including Prednisone, cortisone, nasal sprays, topical ointments) should be avoided for a minimum 48 hrs. This test is not appropriate for individuals on chemotherapy and immunosuppressive medications. Long-term steroid use may influence test results. Please check with the laboratory. This test is not recommended for children under 24 months. Please refer to full instructions sent with the kit.

Test Components:

See Pages 16 - 17

Specimen Type:

Serum

TAT:

14 days

Add-on

Serum Zonulin

IMM13 IgG Spices

Description:

Using the same technique as the larger 87-Food panel (IMM12), this smaller IgG panel assesses 24 of the frequently used culinary herbs and spices. IgG antibodies are associated with ‘delayed’ or non-atopic food reactions that exacerbate or contribute to many different health problems.

Patient Requirements:

It is suggested that the patient eat a variety of foods for 2-3 weeks prior to food antibody testing (EXCEPT for foods that are known to cause severe reactions) to ensure the presence of antibodies to allergenic foods. Steroid Medication (including Prednisone, cortisone, nasal sprays, topical ointments) should be avoided for a minimum 48 hrs. This test is not appropriate for individuals on chemotherapy and immunosuppressive medications. Long-term steroid use may influence test results. Please check with the laboratory. This test is not recommended for children under 24 months. Please refer to full instructions sent with the kit.

Test Components:

Allspice	Cumin	Mustard	Sage
Basil	Curry	Nutmeg	Thyme
Bay Leaf	Dill	Oregano	Total IgE
Black Pepper	Fennel Seed	Paprika	Vanilla
Cayenne Pepper	Ginger	Parsley	
Cinnamon	Horseradish	Peppermint	
Cloves	Marjoram	Rosemary	

Specimen Type:

Serum

TAT:

10 days

IMM16 tTGA - Tissue Transglutaminase

Description:

This test can be used to detect untreated Coeliac disease by measuring the target antibody implicated in this disease – tissue transglutaminase, as discussed above.

Patient requirements:

NOTE: the tTGA marker will become negative upon successful avoidance of gluten. For initial diagnosis, ensure the patient has had recent exposure to gluten-containing grains.

Please refer to full instructions sent with the kit.

Specimen Type:

Serum

TAT:

10 days

IMM17 Secretory Immunoglobulin A (sIgA)

Description:

Secretory IgA (sIgA) is secreted by all mucosal-associated lymphoid tissue, and represents the first line defence of the GI mucosa. Deficient levels of sIgA can result in the increased uptake of intestinal pathogens or macromolecules and stimulate a systemic immune response. Measuring levels of sIgA can provide the link between gut disorders and systemic illness.

Patient Requirements:

Please refer to full instructions sent with the kit.

Specimen Type:

Saliva

TAT:

12 days

IMM15 Coeliac Profile (Gluten Sensitivity)

Description:

Anti-Tissue Transglutaminase and Deamidated Gliadin IgA are highly sensitive markers for identifying coeliac disease. When tTGA is positive, testing for IgA-Anti-endomysial Antibodies is routinely performed. This further enhances the accuracy of the profile and helps identify those with silent and latent forms of the disease. Patients with coeliac disease are 10-15 times more likely to have IgA deficiency than the general population. Testing for total IgA increases the diagnostic accuracy by ruling out false negative results in those who are IgA deficient. Practitioners also have the ability to determine compliance with the IgG and IgA Anti-gliadin antibodies.

Patient requirements:

NOTE: the tTGA marker will become negative upon successful avoidance of gluten. For initial diagnosis, ensure the patient has had recent exposure to gluten containing grains.

Please refer to full instructions sent with the kit.

Test Components:

Anti-Deamidated Gliadin IgA (DGP IgA) Anti-Gliadin IgA
Anti-Gliadin IgG
Anti-Tissue Transglutaminase IgA

Specimen Type:

Serum

TAT:

10 days

Add-on

Serum Zonulin

Immunology Profiles Biomarkers Comparison Table				
Test Components	IgE Food Panel IMM26	IgG Food Panel IMM12	0075 IgG 90	0076 IgG4 Bloodspot
Alfalfa		•		
Almond	•	•	•	•
Apple		•	•	
Apricot		•	•	
Asparagus		•	•	
Aspergillus			•	•
Aubergine				
Avocado		•	•	
Banana		•	•	
Barley			•	
Beef		•	•	•
Beet		•		
Black Pepper			•	
Blueberry		•	•	
Brazil Nut	•			
Broccoli		•	•	
Buckwheat	•	•		
Cabbage		•	•	
Cane Sugar		•		
Cantaloupe			•	•
Carrot		•	•	
Casein		•	•	
Cashew			•	•
Cauliflower			•	
Celery		•	•	
Cheddar Cheese (Cow's Cheese)		•		
Chicken		•	•	•
Chickpea				
Chocolate		•	•	
Cinnamon			•	
Clam		•	•	
Coconut	•		•	
Cod	•	•	•	
Coffee		•	•	
Corn	•	•	•	•
Corn Gluten		•		
Cottage Cheese		•		
Cow's Milk	•	•	•	•
Crab		•	•	•
Cranberry		•	•	
Cucumber		•	•	
Egg White	•	•	•	
Egg Yolk		•	•	
Egg, Whole				•
Flounder			•	
Garlic		•	•	•
Ginger			•	
Gluten		•		
Goat's Milk		•		
Grape		•	•	
Grapefruit		•	•	
Green Bean		•		
Green Pepper		•	•	
Halibut			•	
Hazelnut	•			
Honeydew			•	
Kidney Bean		•		
Lactalbumin		•		
Lamb		•	•	
Lemon		•	•	
Lentil		•	•	
Lettuce		•	•	
Lima Bean		•	•	
Lobster		•	•	•
Mackerel			•	

Immunology Profiles Biomarkers Comparison Table				
Test Components	IgE Food Panel IMM26	IgG Food Panel IMM12	0075 IgG 90	0076 IgG4 Bloodspot
Malt			*	
Mushroom		*	*	
Mussel	*			
Mustard				*
Mustard Seed			*	
Navy Bean			*	
Nectarine			*	
Oat	*	*	*	*
Olive		*	*	
Onion		*	*	
Orange		*	*	*
Oyster		*	*	
Papaya		*		
Pea		*	*	*
Peach		*	*	
Peanut	*	*	*	*
Pear		*	*	
Pecan		*	*	
Pineapple		*	*	
Pinto Bean		*	*	*
Pistachio			*	
Plum (Prune)		*		
Pork		*	*	*
Potato, Sweet		*	*	
Potato, White		*	*	
Raspberry		*		
Red Snapper		*		
Rice	*	*	*	*
Rice Milk				
Rye		*	*	
Sage				
Salmon	*	*	*	*
Sardine		*		
Sesame	*	*	*	
Shrimp	*	*	*	*
Sole		*		
Soy		*		
Soybean	*		*	*
Spinach		*	*	
Strawberry		*	*	*
String Bean		*	*	
Sunflower		*	*	*
Tea			*	
Tomato		*	*	*
Trout		*	*	
Tuna	*	*	*	*
Turkey		*	*	*
Vanilla			*	
Walnut, English		*	*	*
Watermelon			*	
Wheat	*	*	*	*
Yeast		*		
Yeast, Baker's			*	
Yeast, Brewer's			*	
Yogurt		*		
Zucchini		*	*	
Total IgE	*	*		
Add-on Serum Zonulin	+	+		

NUT06 NutrEval®**Description:**

Unlike any other nutritional assessments, NutrEval® provides a framework of core nutrients in 5 key areas: Antioxidants, B Vitamins, Digestive Support, Essential Fatty Acids, and Minerals. The Amino Acids are measured in a convenient first-morning urine collection.

Samples must be centrifuged, so please ensure this facility is available at phlebotomy site.

Patient requirements:

Fasting for 12 hours (water only). 4 days prior to testing avoid all non-essential medications, vitamins, minerals and herbal supplements, unless wishing to monitor therapy. Please refer to full instructions sent with the kit.

NB: Long-term steroid use may influence test results, please check with the laboratory. This test is not suitable for children under the age of 24 months.

Test Components:

See Pages 20 - 25

Specimen Type:

Blood/Urine/Serum

TAT:

21 Days

Add-on Profiles

Add-On Genomics SNP - APO E
(C112R + R158C)

Add-On Genomics SNP - MTHFR Combined
(A1298C + C677T)

Add-On Genomics SNP - TNFA

Add-On Genomics SNP - COMT (V158M)

NUT04 ONE (Optimal Nutritional Evaluation®)**Description:**

The ONE® will help you understand your patients' individual diet and supplementation needs. This panel includes key organic acids to evaluate gastrointestinal function and functional need for vitamins, minerals and co-factors. In addition, amino acids are measured to assess digestion, absorption, metabolic impairments and nutritional deficits. Anti-oxidant reserves and the presence of oxidative injury are analyzed.

Patient requirements:

Fasting for 12 hours (water only). 4 days prior to testing avoid all non-essential medications, vitamins, minerals and herbal supplements, unless wishing to monitor therapy. Please refer to full instructions sent with the kit.

NB: Long-term steroid use may influence test results, please check with the laboratory. This test is not suitable for children under the age of 24 months.

Test Components:

See Pages 20 - 25

Specimen Type:

Urine

TAT:

21 days

0090 ION® Profile**0490 ION™ Profile with Amino Acids 40****Description**

The ION® (Individual•Optimal•Nutrition) Profile is a combination of nutritional analyses that measures levels of organic acids, fatty acids, amino acids, vitamins, minerals and antioxidants. Over time, functional nutritional inadequacies can result in a variety of chronic health conditions. The ION profile can help determine the basis for these chronic health conditions.

Patient Requirements:

Please refer to full instructions sent with the kit.

Test Components:

See Pages 20 - 25

Specimen Type:

Blood/Urine

TAT:

23 Days

0290 Cardio/ION™ Profile

Description:

The Cardio/ION™ Profile provides a comprehensive array of parameters to determine overall nutritional status with a specific impact on reducing the risk of cardiovascular disease and improving cardiovascular health.

Patient Requirements:

Please refer to full instructions sent with the kit.

Test Components:

See Pages 20 - 25

Specimen Type:

Blood/Urine

TAT:

23 days

0400 TRIAD™ Profile

0410 TRIAD™ Bloodspot Profile

Description:

This profile is a combination of the Allergix® IgG4 Food Antibodies Assay (0075), Organix® Comprehensive (0091) and Amino Acid Plasma-20 (0011) profiles. The TRIAD™ Profile allows simultaneous assessment of food sensitivities and intestinal hyperpermeability; urinary microbial metabolites, detoxification indicators, functional vitamin and mineral sufficiency markers, neural function markers and essential amino acid status. The TRIAD Profile provides the clinician with a powerful array of clinical tools to design appropriate therapeutic interventions for the patient.

Test Components:

See Pages 20 - 25

Specimen Type:

Blood or Bloodspot/Urine

TAT:

16 days

Nutritional Profiles Test Components Comparison Table

Test Components Reported	NUTREVAL NUT06	ONE FMV NUT04	0090 ION	0490 ION w AA40	0290 C/ION	0400 TRIAD	0410 TRIAD BS
Amino Acids							
1-Methylhistidine	*	*		*			
3-Methylhistidine	*	*		*			
α-Aminoadipic Acid	*	*		*			
α-Amino-N-Butyric Acid	*	*		*			
β-Alanine	*	*		*			
β-Aminoisobutyric Acid	*	*		*			
Alanine	*	*		*			
Anserine	*	*		*			
Arginine	*	*	*	*	*	*	*
Asparagine	*	*	*	*	*	*	*
Aspartic Acid	*	*	*	*	*	*	*
Carnosine	*	*		*			
Citrulline	*	*	*	*	*	*	*
Cystathionine	*	*		*			
Cysteine	*	*		*			
Cystine	*	*		*			
Ethanolamine	*	*		*			
Gamma-Aminobutyric Acid	*	*		*			
Glutamic Acid	*	*	*	*	*	*	*
Glutamine	*	*	*	*	*	*	*
Glycine	*	*	*	*	*	*	*
Histidine	*	*	*	*	*	*	*
Homocysteine	*		*	*	*		
Hydroxylysine				*			
Hydroxyproline				*			
Isoleucine	*	*	*	*	*	*	*
Leucine	*	*	*	*	*	*	*
Lysine	*	*	*	*	*	*	*
Methionine	*	*	*	*	*	*	*
Ornithine	*	*	*	*	*	*	*
Phenylalanine	*	*	*	*	*	*	*
Phosphoethanolamine	*	*		*			
Phosphoserine	*	*		*			
Proline	*	*		*			
Sarcosine	*	*		*			
Serine	*	*	*	*	*	*	*
Taurine	*	*	*	*	*	*	*
Threonine	*	*	*	*	*	*	*
Tryptophan	*	*	*	*	*	*	*
Tyrosine	*	*	*	*	*	*	*
Valine	*	*	*	*	*	*	*
Urea	*	*					
Ammonia	*	*					
Amino Acid Ratios							
Arginine/Ornithine	*	*					
Glutamine/Glutamate	*	*	*	*	*	*	*
Phenylalanine/Tyrosine			*	*	*	*	*
Hydroxyproline/Proline				*			
α-ANB/Leucine				*			
Tryptophan/LNAA (Large Neutral AA - Leu+Ile+Val+Phe+Tyr)			*	*	*	*	*

Nutritional Profiles Test Components Comparison Table

Test Components Reported	NUTREVAL NUT06	ONE FMV NUT04	0090 ION	0490 ION w AA40	0290 C/ION	0400 TRIAD	0410 TRIAD BS
Cardiovascular Health							
Lipoprotein Factors							
Total Cholesterol					•		
HDL Cholesterol					•		
Direct LDL					•		
Triglycerides					•		
Lipoprotein (a)					•		
Lipoprotein Ratios					•		
LDL/HDL					•		
Total/HDL					•		
Insulin					•		
Testosterone					•		
SHBG					•		
Free Androgen Index					•		
Chronic Inflammatory Markers							
C-Reactive Protein (HS)					•		
Ferritin					•		
Fibrinogen					•		
Oxidant Stress Factors							
Coenzyme Q10	•		•	•	•		
Lipid Peroxides	•	•	•	•	•		
Nutrient and Toxic Elements							
Nutrient Elements							
Calcium			•	•	•		
Copper	•		•	•	•		
Magnesium	•		•	•	•		
Manganese	•						
Potassium	•		•	•	•		
Selenium	•		•	•	•		
Zinc	•		•	•	•		
Toxic Elements							
Arsenic	•		•	•	•		
Cadmium	•		•	•	•		
Lead	•		•	•	•		
Mercury	•		•	•	•		
Tin	•						

Nutritional Profiles Test Components Comparison Table

Test Components Reported	NUTREVAL NUT06	ONE FMV NUT04	0090 ION	0490 ION w AA40	0290 C/ION	0400 TRIAD	0410 TRIAD BS
Fatty Acids							
Polyunsaturated Omega-3							
Alpha-Linolenic Acid (ALA)	*		*	*	*		
Docosahexaenoic Acid (DHA)	*		*	*	*		
Docosapentaenoic Acid	*		*	*	*		
Eicosapentaenoic Acid (EPA)	*		*	*	*		
% Omega-3s	*						
Polyunsaturated Omega-6							
Arachidonic Acid	*		*	*	*		
Dihomogamma Linolenic Acid (DGLA)	*		*	*	*		
Docasadienoic Acid			*	*	*		
Docosatetraenoic Acid	*		*	*	*		
Eicosadienoic Acid	*		*	*	*		
Gamma Linolenic Acid (GLA)	*		*	*	*		
Linoleic Acid (LA)	*		*	*	*		
% Omega-6s	*						
Polyunsaturated Omega-9							
Mead Acid			*	*	*		
% Omega-9s	*						
Monounsaturated Omega-7							
11-Eicosenoic Acid			*	*	*		
Myristoleic Acid			*	*	*		
Nervonic Acid	*		*	*	*		
Oleic Acid	*		*	*	*		
Palmitoleic Acid	*		*	*	*		
Vaccenic Acid	*		*	*	*		
Saturated							
Arachidic Acid	*		*	*	*		
Behenic Acid	*		*	*	*		
Capric Acid			*	*	*		
Hexacosanoic Acid			*	*	*		
Lauric Acid			*	*	*		
Lignoceric Acid	*		*	*	*		
Margaric Acid	*						
Myristic Acid			*	*	*		
Palmitic Acid	*		*	*	*		
Stearic Acid	*		*	*	*		
% Saturated Fats	*						
Odd Chain							
Heneicosanoic Acid			*	*	*		
Heptadecanoic Acid			*	*	*		
Nonadecanoic Acid			*	*	*		
Pentadecanoic Acid	*		*	*	*		
Tricosanoic Acid	*		*	*	*		
Trans							
Elaidic Acid	*						
Palmitelaidic Acid			*	*	*		
Total C:18 Trans			*	*	*		
Ratios (calculated)/Various							
LA/DGLA	*		*	*	*		
EPA/DGLA			*	*	*		
AA/EPA	*		*	*	*		
Triene/Tetraene			*	*	*		
Stearic/Oleic			*	*	*		
Omega-6s/ Omega-3s	*						
Index of Omega-3s	*						

Nutritional Profiles Test Components Comparison Table

Test Components Reported	NUTREVAL NUT06	ONE FMV NUT04	0090 ION	0490 ION w AA40	0290 C/ION	0400 TRIAD	0410 TRIAD BS
Organic Acids							
Nutrient Cellular and Mitochondrial Markers							
Fatty Acid Metabolism							
Adipate
Suberate
Ethylmalonate		
Carbohydrate Metabolism							
Pyruvate
Lactic Acid	.	.					
L-Lactate		
β-Hydroxybutyrate		
β-OH-Butyric Acid (BHBA)	.	.					
Energy Production (Citric Acid Cycle)							
Citrate
cis-Aconitate
Isocitrate
α-Ketoglutarate
Succinate
Fumarate		
Malate
Hydroxymethylglutarate
Vitamin Markers							
B-Complex Vitamin Markers							
α-Ketoadipic Acid	.	.					
α-Ketoisovalerate
α-Ketoisocaproate
α-Keto-β-Methylvalerate
Xanthurenate
β-Hydroxyisovalerate		
Glutaric Acid	.	.					
Isovalerylglycine	.	.					
3-Hydroxypropionic Acid	.	.					
3-Hydroxyisovaleric Acid	.	.					
Methylation Cofactor Markers							
Methylmalonate
Formiminoglutamate
Cell Regulation Markers							
Neurotransmitter Metabolism Markers							
Vanilmandelate
Homovanillate
5-Hydroxyindoleacetate
Kynurenate
Quinolate
Kynurenic / Quinolinic Ratio	.	.					
3-Methyl-4-OH-phenylglycol	.	.					
Picolinate		
Oxidative Damage and Antioxidant Markers							
p-Hydroxyphenyllactate		
Lipid Peroxides	.	.					

Nutritional Profiles Test Components Comparison Table

Test Components Reported	NUTREVAL NUT06	ONE FMV NUT04	0090 ION	0490 ION w AA40	0290 C/ION	0400 TRIAD	0410 TRIAD BS
Organic Acids							
Toxicants and Detoxification							
a-Ketophenylacetic Acid	*	*					
a-Hydroxyisobutyric Acid	*	*					
2-Methylhippurate			*	*	*	*	*
Orotate	*	*	*	*	*	*	*
Glucarate			*	*	*	*	*
a-Hydroxybutyrate			*	*	*	*	*
Pyroglutamate	*	*	*	*	*	*	*
Sulfate			*	*	*	*	*
Tyrosine Metabolism							
2-Hydroxyphenylacetic Acid	*	*					
Homogentisic Acid	*	*					
Malabsorption and Dysbiosis Markers							
Malabsorption Markers							
Indoleacetic Acid	*	*					
Bacterial /Yeast Dysbiosis Markers							
Bacterial - general							
Benzoate	*	*	*	*	*	*	*
Hippurate	*	*	*	*	*	*	*
Dihydroxyphenylpropionic Acid (DHPPA)	*	*					
3-Hydroxypropionic Acid	*	*					
4-Hydroxyphenylpyruvic Acid	*	*					
Phenylpropionate			*	*	*	*	*
Phenylacetate	*	*	*	*	*	*	*
p-Hydroxybenzoate			*	*	*	*	*
p-Hydroxyphenylacetate			*	*	*	*	*
Indican			*	*	*	*	*
Tricarballoylate			*	*	*	*	*
L. acidophilus/general bacterial							
D-Lactate			*	*	*	*	*
3,4 Dihydroxyphenylpropionate			*	*	*	*	*
Yeast/Fungal							
D-Arabinitol			*	*	*	*	*
Arabinose	*	*					
Citramalic Acid	*	*					
Tartaric Acid	*	*					
Oxidative Stress							
Coenzyme Q10	*		*	*	*		
Alpha tocopherol			*	*	*		
Gamma tocopherol			*	*	*		
Vitamin A			*	*	*		
β-Carotene			*	*	*		
Lipid Peroxides	*	*	*	*	*		
Vitamin D			*	*	*		
Glutathione	*						
8-Hydroxy-2'-deoxyguanosine	*	*	*	*	*	*	*

Nutritional Profiles Test Components Comparison Table

Test Components Reported	NUTREVAL NUT06	ONE FMV NUT04	0090 ION	0490 ION w AA40	0290 C/ION	0400 TRIAD	0410 TRIAD BS
Creatinine	.	.					
Genomics Add-on A-la-carte SNPs							
ApoE (apolipoprotein E)	+						
MTHFR (methylenetetrahydrofolate reductase)	+						
COMT (catechol-O-methyltransferase)	+						
TNF-a (tumor necrosis factor-alpha)	+						

MET02 Metabolic Analysis Profile

Description:

This test measures four critical areas of metabolism: gastrointestinal function and dysbiosis markers, cellular and mitochondrial energy metabolites, neurotransmitter metabolites, and functionally important organic acid metabolites of amino acids. The reference ranges for this test apply to children (2-12 yrs) and adults.

Includes 38 organic acids ratioed to creatinine including 8 gastrointestinal metabolites, 13 cellular energy metabolites, 4 neurotransmitter metabolites and 14 amino acid metabolites.

Patient Requirements:

Discontinue all supplementation (including creatine, alpha-ketoglutarate, citrate, malate, or orotate forms of minerals) 4 days prior to testing unless wishing to monitor therapy. This test is not suitable for children under the age of 18 months.

Test Components:

See Pages 27 - 28

Specimen Type:

Urine

TAT:

21 days

Patient Requirements:

Please refer to full instructions sent with the kit.

0091 Organix® Comprehensive Profile

Description:

The Organix® Comprehensive Profile provides a view into the body's cellular metabolic processes and the efficiency of metabolic function. Identifying metabolic blocks that can be treated nutritionally allows individual tailoring of interventions that maximize patient responses and lead to improved patient outcomes. Organic acids are metabolic intermediates that are produced in pathways of central energy production, detoxification, neurotransmitter breakdown or intestinal microbial activity. Marked accumulation of specific organic acids detected in urine often signals a metabolic inhibition or block. The metabolic block may be due to a nutrient deficiency, an inherited enzyme deficit, toxic build-up or drug effect. Several of the Test Components are markers of intestinal bacterial or yeast overgrowth.

Test Components:

See Pages 27 - 28

Specimen Type:

Urine

TAT:

16 days

Patient Requirements:

Please refer to full instructions sent with the kit.

0097 Organix® Dysbiosis Profile

Description:

The Russian scientist Elie Metchnikoff (1845 - 1916) popularized the idea of "Dys-symbiosis" or "Dysbiosis," describing an imbalance in the microecology of the digestive tract. When the microbial balance of the gut is disturbed, opportunistic, or "bad", bacteria can overgrow and mitigate the effects of the "good", predominant bacteria needed for a healthy gut.

Test Components:

See Pages 27 - 28

Specimen Type:

Urine

TAT:

16 days

Patient Requirements:

Please refer to full instructions sent with the kit.

0291 Organix® Basic Profile (w/o Dysbiosis Markers)

Description:

The Organix® Profile provides a view into the body's cellular metabolic processes and the efficiency of metabolic function. Identifying metabolic blocks that can be treated nutritionally allows individual tailoring of interventions to help maximize patient responses and lead to improved patient outcomes.

Test Components:

See Pages 27 - 28

Specimen Type:

Urine

TAT:

16 days

Patient Requirements:

Please refer to full instructions sent with the kit.

Organic Acid Profiles Test Components Comparison Table

Test Components reported	MAP MET02	0091 ORGX COMP	0291 ORGX BASIC	0097 ORGX DYSB
Nutrient Cellular and Mitochondrial Markers				
Fatty Acid Metabolism				
Adipate	•	•	•	
Suberate	•	•	•	
Ethylmalonate		•	•	
Carbohydrate Metabolism				
Pyruvate	•	•	•	
Lactic Acid	•			
L-Lactate		•	•	
β-Hydroxybutyrate		•	•	
β-OH-β-Methylglutaric Acid (HMG)	•			
β-OH-Butyric Acid (BHBA)	•			
Energy Production (Citric Acid Cycle)				
Citrate	•	•	•	
cis-Aconitate	•	•	•	
Isocitrate	•	•	•	
α-Ketoglutarate (AKG)	•	•	•	
Succinate	•	•	•	
Fumarate		•	•	
Malate	•	•	•	
Hydroxymethylglutarate	•	•	•	
Vitamin Markers				
B-Complex Vitamin Markers				
α-Ketoadipic Acid	•			
α-Ketoisovalerate	•	•	•	
α-Ketoisocaproate	•	•	•	
α-Keto-β-Methylvalerate	•	•	•	
Xanthurenate	•	•	•	
β-Hydroxyisovalerate		•	•	
Glutaric Acid	•			
3-Hydroxypropionic Acid	•			
3-Hydroxyisovaleric Acid	•			
Isovalerylglycine	•			
Methylation Cofactor Markers				
Methylmalonate	•	•	•	
Formiminoglutamate	•	•	•	
Cell Regulation Markers				
Neurotransmitter Metabolism Markers				
Vanilmandelate	•	•	•	
Homovanillate	•	•	•	
5-Hydroxyindoleacetate	•	•	•	
Kynurenate	•	•	•	
Quinolate	•	•	•	
Kynurenic / Quinolinic Ratio	•			
3-Methyl-4-OH-phenylglycol	•			
Picolinate		•	•	

Organic Acid Profiles Test Components Comparison Table

Test Components reported	MAP MET02	0091 ORGX COMP	0291 ORGX BASIC	0097 ORGX DYSB
Oxidative Damage and Antioxidant Markers				
p-Hydroxyphenyllactate		•		
Lipid Peroxides	•			
8-Hydroxy-2'-deoxyguanosine		•		
Toxicants and Detoxification				
a-Ketophenylacetic Acid (from Styrene)	•			
a-Hydroxyisobutyric Acid (from MTBE)	•			
2-Methylhippurate		•	•	
Orotate	•	•	•	
Glucarate		•	•	
a-Hydroxybutyrate		•	•	
Pyroglutamate	•	•	•	
Sulfate		•		
Tyrosine Metabolism				
2-Hydroxyphenylacetic Acid	•			
Homogentisic Acid	•			
Malabsorption and Dysbiosis Markers				
Malabsorption Markers				
Indoleacetic Acid (IAA)	•			
Phenylacetate (PAA)	•	•		•
Bacterial /Yeast Dysbiosis Markers				
Bacterial - general				
Benzoate	•	•		•
Hippurate	•	•		•
Benzoic/Hippuric Acids Ratio				
Dihydroxyphenylpropionic Acid (DHPPA)	•			
3-Hydroxyphenylacetic Acid	•			
4-Hydroxyphenylacetic Acid	•			
Phenylpropionate		•		•
p-Hydroxybenzoate		•		•
p-Hydroxyphenylacetate		•		•
Indican		•		•
Tricarballoylate		•		•
L. acidophilus/general bacterial				
D-Lactate		•		•
Clostridial species				
3,4 Dihydroxyphenylpropionate		•		•
Yeast/Fungal				
D-Arabinitol		•		•
Arabinose	•			
Citramalic Acid	•			
Tartaric Acid	•			
Creatinine	•			

0010 Amino Acids 40 Profile/ 0011 Amino Acids 20 Profile**Description:**

The plasma amino acid 20 profile pinpoints problems in amino acid absorption and determining essential amino acid imbalances. Additionally, the plasma amino acid 40 profile includes evaluation of limiting, branched chain and essential and non-essential amino acids. It also identifies several functional categories, such as neuroendocrine, vascular, collagen status and detoxification along with five calculated ratios and identifies vitamin and mineral insufficiencies.

Test Components:

See Page 30

Specimen Type:

Plasma

TAT:

12 days

Patient Requirements:

Please refer to full instructions sent with the kit.

NUT01 Amino Acids Analysis, Urine**Description:**

Quantifies levels of excretion of amino acids and their metabolites, and evaluates essential and non-essential amino acid nutrient status in the urine. It can also indicate functional deficiencies of a number of mineral and vitamin co-factors. Indicated for patients with suspected inadequate protein utilization and other metabolic disorders including depression.

Urine: Metabolic Markers for Urine Representativeness, Nutritionally Essential and Semi-Essential Amino Acids, Dietary Peptide-Related Markers, Non-essential Protein Amino Acids, Intermediary Metabolites and Diagnostic Markers.

Test Components:

See Page 30

Specimen Type:

Urine

TAT:

21 days

Patient requirements:

This test is not suitable for children under the age of 18 months. Please refer to full instructions sent with the kit.

NUT02 Amino Acids Analysis, Plasma**Description:**

Quantifies levels of circulating amino acids and their metabolites, and evaluates essential and non-essential amino acid nutrient status in the blood. Also can indicate functional deficiencies of a number of mineral and vitamin co-factors. Indicated for patients with suspected inadequate protein utilization and other metabolic disorders including arthritis and depression.

Plasma: Metabolic Markers for Plasma Representativeness, Nutritionally Essential and Semi-Essential Amino Acids, Dietary Peptide-Related Markers, Non-essential Protein Amino Acids, Intermediary Metabolites and Diagnostic Markers.

Test Components:

See Page 30

Specimen Type:

Plasma

TAT:

21 days

Patient requirements:

Patient should fast overnight; blood samples should be taken between 7am – 10am. This test is not suitable for children under the age of 18 months. Please refer to full instructions sent with the kit.

0013 Bloodspot Amino Acids 11 Profile/ 0113 Bloodspot Amino Acids 20 Profile**Description:**

The BloodspotSM Amino Acid Assay is a fingerstick amino acid test that measures all of the essential plus key nonessential amino acids. Fasting levels of amino acids represent homeostatic balance between supply and utilization of these critical building blocks. The Bloodspot Amino Acid Assay is a non-invasive alternative to the blood draw in determining essential amino acid status. The test kit is simple enough for the patient to use at home. A formula for a custom amino acid blend is provided with every bloodspot amino acid test result. This blend can be made by any compounding pharmacy.

Test Components:

See Page 30

Specimen Type:

Bloodspot

TAT:

16 days

Patient Requirements:

Please refer to full instructions sent with the kit.

Amino Acid Profiles Test Components Comparison Table						
Biomarkers reported	0010 AA40 PLSM	0011 AA20 PLSM	0113 AA20 BS	0013 AA11 BS	AA Analysis Plasma NUT02	AA Analysis Urine NUT01
1-Methylhistidine	*				*	*
3-Methylhistidine	*				*	*
a-Amino adipic Acid	*				*	*
a-Amino-N-Butyric Acid	*				*	*
β-Alanine	*				*	*
β-Aminoisobutyric Acid	*				*	*
Alanine	*				*	*
Anserine	*					*
Arginine	*	*	*	*	*	*
Asparagine	*	*	*		*	*
Aspartic Acid	*	*	*		*	*
Carnosine	*					*
Citrulline	*	*	*		*	*
Cystathionine	*				*	*
Cysteine					*	*
Cystine	*					*
Ethanolamine	*				*	*
Gamma-Aminobutyric Acid	*				*	*
Glutamic Acid	*	*	*		*	*
Glutamine	*	*	*		*	*
Glycine	*	*	*		*	*
Histidine	*	*	*	*	*	*
Homocystine	*					
Hydroxylysine	*					
Hydroxyproline	*					
Isoleucine	*	*	*	*	*	*
Leucine	*	*	*	*	*	*
Lysine	*	*	*	*	*	*
Methionine	*	*	*	*	*	*
Ornithine	*	*	*		*	*
Phenylalanine	*	*	*	*	*	*
Phosphoethanolamine	*				*	*
Phosphoserine	*				*	*
Proline	*				*	*
Sarcosine	*				*	*
Serine	*	*	*		*	*
Taurine	*	*	*	*	*	*
Threonine	*	*	*	*	*	*
Tryptophan	*	*	*	*	*	*
Tyrosine	*	*	*		*	*
Valine	*	*	*	*	*	*
Amino Acid Ratios						
Arginine/Ornithine						*
Asparagine/Aspartate					*	
Glutamine/Glutamate	*	*	*		*	*
Phenylalanine/Tyrosine	*	*	*			
Hydroxyproline/Proline	*					
α-ANB/Leucine	*					
Tryptophan/LNAA (Large Neutral AA - Leu+Ile+Val+Phe+Tyr)	*	*	*	*		
Other Markers						
Ammonia					*	*
Urea					*	*
Creatinine						*
24hr Urine Volume					*	*
Urine Representativeness Index						*
Plasma Representativeness Index					*	

NUT03 Essential & Metabolic Fatty Acids Analysis

Description:

Evaluates the level of red cell membrane fatty acids, imbalances of which significantly affect inflammatory and other disorders. By knowing the various fatty acid levels, one can re-establish a balance using nutritional intervention.

Patient Requirements:

Overnight fast (water only). Consume only light meals 24 hours prior to testing. Please refer to full instructions sent with the kit.

Test Components:

See Page 32

Specimen Type:

Whole Blood

TAT:

14 days

0041 Fatty Acids Erythrocytes

Description:

Red blood cell membrane levels of fatty acids reveal metabolic effects and long-term balance in the tissues. This test is preferred to assess nutritional status of the critical eicosanoid and long chain fatty acids necessary for membrane stabilization.

Patient Requirements:

Overnight fast (water only). Consume only light meals 24 hours prior to testing. Please refer to full instructions sent with the kit.

Test Components:

See Page 32

Specimen Type:

Whole Blood

TAT:

16 days

0040 Fatty Acids Plasma

Description:

Plasma fatty acid levels reflect body stores as influenced by recent dietary intake and are useful for monitoring response to supplementation and dietary modifications. Plasma levels are preferred for assessment of dietary adequacy of these essential fatty acids as revealed by adipose tissue composition. Mead acid and the triene/tetraene ratio reveal chronic essential fatty acid insufficiency.

Patient Requirements:

Please refer to full instructions sent with the kit.

Test Components:

See Page 32

Specimen Type:

Plasma

TAT:

16 days

0241 Bloodspot Fatty Acids Profile

Description:

The BloodspotSM Fatty Acid Profile measures key omega-3 and omega-6 fatty acids and calculates key indicators to establish your optimal balance. Trans fatty acids—the “bad” oils in processed foods—are also measured. Individual fatty acids are measured as a percent of the total measurable fatty acids.

Patient Requirements:

Please refer to full instructions sent with the kit.

Test Components:

See Page 32

Specimen Type:

Blood Spot

TAT:

12 days

Fatty Acid Profiles Test Components Comparison Table

Test Components reported	0040 FA PLASMA	0041 FA ERYTHROCYTES	0241 FA BLOODSPOT	EMFA NUT03
Polyunsaturated Omega-3				
Alpha-Linolenic Acid (ALA)
Docosahexaenoic Acid (DHA)
Docosapentaenoic Acid	.	.		.
Eicosapentaenoic Acid (EPA)
% Omega-3				.
Polyunsaturated Omega-6				
Arachidonic Acid
Dihomogamma Linolenic Acid (DGLA)
Docasadienoic Acid	.	.		
Docosatetraenoic Acid	.	.		.
Eicosadienoic Acid	.	.		.
Gamma Linolenic Acid (GLA)
Linoleic Acid
% Omega-6				.
Polyunsaturated Omega-9				
Mead Acid	.	.		
% Omega-9				.
Monounsaturated				
11-Eicosenoic Acid	.	.		
Myristoleic Acid	.	.		
Nervonic Acid	.	.		.
Oleic Acid	.	.		.
Palmitoleic Acid	.	.		.
Vaccenic Acid	.	.		.
Saturated				
Arachidic Acid	.	.		.
Behenic Acid	.	.		.
Capric Acid	.	.		
Hexacosanoic Acid	.	.		
Lauric Acid	.	.		
Lignoceric Acid	.	.		.
Margaric Acid	.	.		.
Myristic Acid	.	.		
Palmitic Acid	.	.		.
Stearic Acid	.	.		.
% Saturated Fats				.
Odd Chain				
Heneicosanoic Acid	.	.		
Heptadecanoic Acid	.	.		
Nonadecanoic Acid	.	.		
Pentadecanoic Acid	.	.		.
Tricosanoic Acid	.	.		.
Trans				
Elaidic Acid				.
Palmitelaidic Acid	.			
Total C:18 Trans	.	.	.	
Ratios (calculated)/Various				
LA/GLA			.	
Linoleic/DGLA	.	.		.
EPA/DGLA	.	.	.	
AA/EPA
Triene/Tetraene	.			
Stearic/Oleic		.		
Omega-6s/Omega-3s				.
Index Of Omega-3s			.	.

0036 Fat-Soluble Vitamins Profile (A, E, D, K, CoQ10 & β-Carotene)**Description:**

Measuring serum levels of the fat-soluble vitamins A, E, D and K plus beta-carotene and CoQ10 gives clinicians a great tool to gain an overall perspective of a patient's health, nutrient processing, and dietary insufficiencies.

Test Components:

25-Hydroxyvitamin D
25-Hydroxyvitamin D 2
25-Hydroxyvitamin D 3
Alpha-Tocopherol
Beta-Carotene
Coenzyme Q10
Gamma-Tocopherol
Retinol
Undercarboxylated Osteocalcin (ucOC)

Specimen Type:

Serum

TAT:

16 days

Patient Requirements:

Please refer to full instructions sent with the kit.

NUT12 Vitamin D**Description:**

Vitamin D has a hormone like effect, which has a high prevalence of deficiency and insufficiency, even in normal populations. There is growing evidence that vitamin D is involved in an increasing number of chronic diseases including bone disease, cancer, autoimmune disease, cardiovascular disease, chronic fatigue and mental health problems.

Patient Requirements:

Please refer to full instructions sent with the kit.

Test Components:

25-Hydroxyvitamin D (Total Vitamin D)

Specimen Type:

Serum

TAT:

9 Days

NUT13 Vitamin B12 & Folate**Description:**

The analysis of these important vitamins is part of an assessment of certain types of anaemia and nutrient status during pregnancy.

Patient Requirements:

Avoid vitamin B12 and Folate containing supplements for 48 hours prior to testing, unless wishing to monitor therapy. Please refer to full instructions sent with the kit.

Specimen Type:

Serum

TAT:

7 days

NUT14 Ferritin**Description:**

Ferritin is the most sensitive marker for an iron deficiency as it is the main storage form of iron in the body. This test measures serum levels.

Patient Requirements:

Avoid iron-containing supplements for 48 hours prior to testing, unless monitoring therapy. Please refer to full instructions sent with the kit.

Specimen Type:

Serum

TAT:

7 days

MET09 Homocysteine**Description:**

Total plasma homocysteine levels are widely implicated in a variety of clinical conditions and are an independent risk factor for cardiovascular, atherothrombotic and cerebrovascular disease. Certain key nutrients, including Vitamin B12, Vitamin B6 and folic acid are necessary for homocysteine metabolism; therefore this test can also provide valuable information about a patient's nutritional status relating to these nutrients.

Samples must be centrifuged, so please ensure this facility is available at phlebotomy site.

Patient Requirements:

Please refer to full instructions sent with the kit.

Specimen Type:

Serum

TAT:

10 days

MET03 Chronic Fatigue Screen**Description:**

This test combines the Adrenal Stress Profile and Metabolic Analysis tests to provide a comprehensive analysis of various factors that may be implicated in chronic fatigue and other related conditions.

Patient requirements:

Please ensure no steroid medication (including hormones, inhalers and creams) is taken 48 hours prior to the test unless wishing to monitor therapy. Please note that long-term steroid use may influence all results. Discontinue supplementation (including creatine, alpha-ketoglutarate, citrate, malate or orotate forms of minerals) 4 days prior to testing unless wishing to monitor therapy. Please refer to full instructions sent with the kit.

Test Components:

2-Hydroxyphenylacetic Acid	Malic Acid
3-Hydroxyisovaleric Acid	Methylmalonic Acid
3-Hydroxyphenylacetic Acid	Orotic Acid
3-Hydroxypropionic Acid	Phenylacetic Acid
3-Methyl-4-OH-phenylglycol	Pyroglutamic Acid
4-Hydroxyphenylacetic Acid	Pyruvic Acid
5-OH-Indoleacetic Acid	Quinolinic Acid
Adipic Acid	Suberic Acid
a-Hydroxyisobutyric Acid	Succinic Acid
a-Ketoadipic Acid	Tartaric Acid
a-Keto-b-Methylvaleric Acid	Vanilmandelic Acid
a-Ketoglutaric Acid	Xanthurenic Acid
a-Ketocaproic Acid	
a-Ketoisovaleric Acid	
a-Ketophenylacetic Acid	
Arabinose	
Benzoic Acid	
b-OH-b-Methylglutaric Acid	
b-OH-Butyric Acid	
Cis-Aconitic Acid	
Citramalic Acid	
Citric Acid	
Cortisol	
Creatinine	
DHEA	
Dihydroxyphenylpropionic Acid	
Formiminoglutamic Acid	
Glutaric Acid	
Hippuric Acid	
Homogentisic Acid	
Homovanillic Acid	
Indoleacetic Acid	
Isocitric Acid	
Isovalerylglycine	
Kynurenic / Quinolinic Ratio	
Kynurenic Acid	
Lactic Acid	

Specimen Type:

Saliva/Urine

TAT:

21 days

MET10 Comprehensive Cardiovascular Assessment

Description:

A comprehensive evaluation of cardiovascular risk measuring various important markers such as cholesterol, triglycerides and homocysteine as well as key inflammatory markers. This unique test combines both traditional and cutting-edge indicators of cardiovascular health that can often be corrected with nutritional intervention.

Samples must be centrifuged, so please ensure this facility is available at phlebotomy site.

Patient requirements:

Overnight fast – 12 hours (water only). Certain supplements and medication (eg: statins, aspirin, warfarin) may influence results. Do not discontinue any medication unless under the supervision of a doctor. Testing whilst on medication / supplements can be done to monitor therapy. Please refer to full instructions sent with the kit.

Test Components:

ApoB/ApoA1	LDL
Apolipoprotein A1	Lp(a)
Apolipoprotein B	TC/HDL
Fibrinogen	Total Cholesterol
Glycosylated Haemoglobin (HbA1C)	Triglycerides
HDL	
Homocysteine	
hs C-Reactive Protein	

Specimen Type:

Blood

TAT:

14 days

MET12 Functional Blood Chemistry Profile

Description:

This biochemistry analysis is a full haematology and biochemical assessment for Glucose & lipid metabolism, Renal Function, Adrenal Function, Liver Function, Thyroid & Parathyroid Function and Iron & Inflammation status.

Samples must be centrifuged, so please ensure this facility is available at phlebotomy site.

Patient Requirements:

Overnight fast - 8 hours (water only). Certain supplements and medication may influence results. Do not discontinue any medication unless under the supervision of a doctor. Testing whilst on medication/supplements can be preformed to monitor therapy. Please refer to full instructions sent with the kit.

Test Components:

Albumin	FT4	MPV
Alkaline Phosphate	Gamma GT	Neutrophils
ALT	Globulin	Phosphorous inorganic
AST	Glucose - fasting	Platelets
Basophils	Hb	Potassium
Bicarbonate	HbA1C	Protein Total
Bilirubin Total	HCT	RBC
Calcium	HDL	RDW
Chloride	HS-CRP	Sodium
Cholesterol	Iron Total	TIBC
Creatine Kinase	LDL	Triglycerides
Creatinine	Lymphocytes	TSH
Eosinophils	MCH	Urea
ESR	MCHC	Uric acid
Ferritin	MCV	WBC
FT3	Monocytes	

Specimen Type:

Blood

TAT:

7 days

MET13 CV Health™

Description:

This profile analyzes blood and utilizes NMR fractionation technology for state-of-the-art lipid markers and independent risk factors to illuminate the clinical complexity of cardiovascular disease (CVD). Together, these markers provide a thorough assessment of cardiovascular health status, revealing the biochemical environment associated with inflammation, lipid deposits, endothelial dysfunction, and clotting factors underlying cardiovascular disease.

Patient Requirements:

Overnight fast for 12 hours (water only). Please refer to full instructions sent with the kit.

Test Components:

Fibrinogen	LDL-Size
HDL	Lp(a)
HDL-P	Lp-PLA2
Homocysteine	Total Cholesterol
hs C-Reactive Protein	Triglycerides
LDL	VLDL-L
LDL-P	VLDL-Size

Specimen Type:

Blood

TAT:

14 days

MET14 CV Health Plus Genomics™

Description:

This profile analyzes blood and utilizes NMR fractionation technology for state-of-the-art lipid markers and independent risk factors that illuminate the clinical complexity of cardiovascular disease (CVD) as well as a patient’s genomic predisposition to cardiovascular diseases. Together, these markers provide a thorough assessment of cardiovascular health status, revealing the biochemical environment and cardiogenomic risk associated with inflammation, lipid deposits, endothelial dysfunction and clotting factors underlying cardiovascular disease.

Patient Requirements:

Overnight fast for 12 hours (water only). Please refer to full instructions sent with the kit.

Test Components:

ApoE	HDL-P	LDLS-P
Cholesterol	HDL-Size	Lp(a)
Factor II	Homocysteine	Lp-PLA2
Factor V	hs C-Reactive Protein	MTHFR
Fibrinogen	LDL	Triglycerides
HDL	LDL-P	VLDL-P
HDLL-P	LDL-Size	VLDL-Size

Specimen Type:

Blood and Buccal Swab

TAT:

21 days

END18 Bone Resorption: Osteoporosis Risk Assessment

Description:

This simple, direct urinary test examines pyridinium crosslinks and deoxypyridinoline. Useful in identifying current rate of bone loss, lytic bone disease and efficacy of bone support therapies.

Patient Requirements:

Overnight fast for 12 hours (water only). Please refer to full instructions sent with the kit.

Test Components:

Creatinine
Deoxypyridinoline
Pyridinium Crosslinks

Specimen Type:

Urine

TAT:

14 days

Vitamin Profiles Test Components Comparison Table

Test Components Reported	NUT 12 VIT D	0036 FSV
Vitamin A		
Alpha Tocopherol (VIT E)		•
Gamma Tocopherol (VIT E)		•
β-Carotene		•
Coenzyme Q10		•
Undercarboxylated osteocalcin (VIT K)		•
25-Hydroxyvitamin D, Total (VIT D)	•	•
25-Hydroxyvitamin D3 (VIT D)		•
25-Hydroxyvitamin D2 (VIT D)		•
Retinol (VIT A)		•
5-methyltetrahydrofolic acid (5-MTHF)		
Pteroylmonoglutamic acid (UMFA)		

Oxidative Stress Profiles Test Components Comparison Table

	Oxidative Stress 2.0 (U)	Oxidative Stress 2.0 (B)
8-OHdG	•	
Lipid Peroxides	•	•
Cysteine		•
Cystine		•
Cysteine/Sulfate Ratio		•
Cysteine/Cystine Ratio		•
Glutathione		•
Glutathione, Peroxidase (GPX)		•
Sulfate		•
Superoxide dismutase (SOD)		•
Total Antioxidant Capacity (TAC)		•

0022 Nutrient and Toxic Elements**Description:**

Toxic elements and selenium are measured in whole blood while major and other trace nutrient elements are measured in erythrocytes. Erythrocyte concentrations are good indicators of body pools of essential elements such as magnesium, potassium, chromium, and zinc. Various regulatory agencies have deemed whole blood to be the preferred specimen for assessment of toxic element exposure to aluminum, arsenic, cadmium, lead and mercury.

Patient Requirements:

Please refer to full instructions sent with the kit.

Test Components:

See Page 42

Specimen Type:

Whole Blood

TAT:

10 days

0026 Toxic Metals**Description:**

Increased exposure to toxic elements is generally reflected by levels in whole blood. This test shows levels of aluminum, arsenic, cadmium, lead and mercury.

Patient Requirements:

Please refer to full instructions sent with the kit.

Test Components:

See Page 42

Specimen Type:

Whole Blood

TAT:

10 days

NUT10 Elemental Analysis**Description:**

Erythrocyte mineral levels are very accurate indicators of body pools of essential and toxic elements. Erythrocytes are particularly favoured for assessing potassium, magnesium and selenium status. The Nutrient & Toxic Elemental Analysis can accurately reveal mineral deficiencies which may be present in a number of conditions. Levels of toxic metals in red blood cells provide an assessment of recent or ongoing exposure; however long-term storage of heavy metals in tissue may be better assessed using urine testing

Patient Requirements:

Overnight fast (water only). 4 days prior to collection: avoid all non-essential medications and all vitamin, mineral and herbal supplements. NOTE: Partial panels cannot be ordered on this profile. Please refer to full instructions sent with the kit.

Test Components:

See Page 42

Specimen Type:

Blood

TAT:

10 days

NUT09 Toxic Element Clearance Profile (Timed or 24 hour)**Description:**

Accumulations of toxic elements from occupational or environmental exposures from toxic release in the air, soil or industrial waste streams can cause adverse health problems. This profile assesses urinary excretion of toxic elements acquired through either chronic or acute exposure. It may be used in conjunction with a chelation challenge, to assess clearance of stored toxic elements. Please note, the chelating agent is not supplied with the kit, and you would need to advise your patient accordingly.

Patient requirements:

2 days before the test discontinue supplements containing Creatine, vitamin C or any of the mineral elements measured in this test. Please ensure the patient is aware if test to be completed as a random / timed / 24 hour urine collection. NOTE: Partial panels cannot be ordered on this profile. Please refer to full instructions sent with the kit.

Test Components:

See Page 42

Specimen Type:

Urine

TAT:

10 days

NUT26 Comprehensive Elemental Profile - Urine**Description:**

This test measures urinary excretion of nutrient elements and toxic metals including "classic" toxic metals such as lead, mercury and arsenic. This is an ideal test for patients suspected of toxic element exposure as well as potential nutrient mineral wasting.

Patient requirements:

2 days before the test discontinue supplements containing Creatine, vitamin C or any of the mineral elements measured in this test. NOTE: Partial panels cannot be ordered on this profile. Please refer to full instructions sent with the kit.

Test Components:

See Page 42

Specimen Type:

Urine

TAT:

10 days

0060 Porphyrins Profile**Description:**

The Porphyrins Profile evaluates the test components of toxicity. Patterns of specific porphyrin elevations in urine may serve as functional markers of toxicity from toxic metals such as mercury, lead, arsenic or other organic chemicals. The Porphyrins Profile measures seven porphyrins, total porphyrins and two ratios to help you differentiate heavy metal toxicity, as well as monitor therapy in your patient. Please refer to full instructions sent with the kit.

Test Components:

Uroporphyrin I and III
 Heptacarboxyporphyrin
 Hexacarboxyporphyrin
 Pentacarboxyporphyrin
 Precoproporphyrin
 Coproporphyrin I
 Coproporphyrin III
 Total porphyrins
 Pre/Uro I & III Ratio
 Copro I/Copro III Ratio

Specimen Type:

Urine

TAT:

16 days

Element Profiles Biomarkers Comparison Table

	0026 TOX MET BLD	0022 N/T ERYTH	COMP URINE ELEMENTS PROFILE NUT26	ELEMENTAL ANALYSIS, NUT10	TOXIC ELEMENT CLEARANCE PROFILE NUT09
Nutrient Elements					
Calcium		*	*		
Chromium			*	*	
Cobalt			*		
Copper		*	*	*	
Iron			*		
Lithium			*		
Magnesium		*	*	*	
Manganese			*	*	
Molybdenum			*		
Phosphorus					
Potassium		*	*	*	
Selenium		*	*	*	
Sodium					
Sulfur			*		*
Vanadium			*	*	
Zinc		*	*	*	
Toxic Elements					
Aluminum	*	*	*		*
Arsenic	*	*	*	*	
Beryllium					*
Cadmium	*	*	*	*	*
Gadolinium			*		*
Gallium			*		*
Lead	*	*	*	*	*
Mercury	*	*	*	*	*
Nickel			*		*
Niobium			*		*
Platinum			*		*
Rubidium			*		*
Thallium			*	*	*
Thorium			*		*
Tin			*	*	*
Tungsten			*		*
Uranium			*		*
Potentially Toxic and Rare Earth Elements					
Antimony			*	*	*
Barium			*		*
Bismuth			*		*
Cesium			*		*
Elements of Unknown Human Requirement					
Strontium			*		

MET05 Oxidative Stress 2.0, Blood**Description:**

Measures antioxidant reserve and enzyme function including: whole blood glutathione, total antioxidant capacity, redox balance and the enzymes superoxide dismutase and glutathione peroxidase. Additionally, blood markers of damage measure lipid peroxides. Especially useful in cases of chronic fatigue, xenobiotic exposure, and chronic illnesses.

Patient requirements:

Overnight fast - 12 hours (water only). Discontinue all supplementation 4 days prior to testing, unless wishing to monitor therapy. Please refer to full instructions sent with the kit.

Test Components:

Lipid Peroxides
Cysteine
Cystine
Glutathione
Glutathione, Peroxidase
Sulfate
Superoxide dismutase (SOD)

Total Antioxidant Capacity, TAC

Specimen Type:

Blood

TAT:

14 days

MET06 Oxidative Stress 2.0, Urine**Description:**

Measures free radical damage, including 8-hydroxy-deoxyGuanosine (8-OHdG; oxidative damage to DNA) and lipid peroxides. Especially useful in cases of chronic fatigue, xenobiotic exposure, and chronic illness.

Patient Requirements:

Please refer to full instructions sent with the kit.

Test Components:

8-OHdG
Lipid Peroxides

Specimen Type:

Urine

TAT:

14 days

0051 Lipid Peroxides (TBARS)**Description:**

Lipid peroxides are the products of chemical damage caused by oxygen free radicals to the polyunsaturated fatty acids of cell membranes. This test is an assay of total thiobarbituric acid-reactive substances (TBARS) in serum using HPLC. The HPLC separation step isolates the TBARS from potential interfering compounds that can give false elevations in a simple colorimetric assay. The results provide a measure of total serum lipid peroxidation, an indicator of whole body free radical activity. High levels of lipid peroxides are associated with cancer, heart disease, stroke and aging.

Patient Requirements:

Please refer to full instructions sent with the kit.

Specimen Requirements

Serum

TAT:

9 Days

END15 Hormonal Health™

Description:

This test provides a focused overview of hormonal balance in both pre- and post-menopausal women, using a single serum sample to evaluate dynamics of sex steroid metabolism that can profoundly affect a woman’s health throughout her lifetime.

Patient Requirements:

Certain drugs (including SSRI’s, benzodiazepines, NSAID’s, anti-hypertensives, betablockers, adrenergics, calcium channel blockers and steroids - including hormones, inhalers and creams) may influence the results and should be avoided 48 hours prior to the test. The use of the contraceptive pill, natural progesterone or HRT can influence the results, and should be avoided prior to testing unless wishing to monitor therapy. If monitoring therapy, the specimen should be obtained approximately 8-10 hours AFTER the last dose of oral, transdermal, or vaginal hormone-containing medication.

Do not discontinue prescription medication unless under the supervision of a doctor.

For premenopausal women the specimen must be collected between days 19 and 25 of the menstrual cycle (luteal phase). Day 1 is the day menstrual flow begins. For menopausal women, the specimen may be collected on any day.

Test Components:

16 alpha-hydroxyoestrone	Sex Hormone Binding Globulin (SHBG)
2-Hydroxyoestrone	Testosterone
DHEA-S	Possible Add-on’s:
Oestradiol	Androstenedione
Oestrinol	Follicle Stimulating Hormone
Oestrone	Luteinizing Hormone
Oestrone Sulfate	Prolactin
Progesterone	Vitamin D

Specimen Type:

Serum

TAT:

10 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END31 Male Hormonal Health™

Description:

This test provides a focused overview of hormonal balance in men using a single serum sample to evaluate dynamics of sex steroid metabolism that can profoundly affect a man’s health throughout his lifetime.

Patient Requirements:

Certain drugs (including SSRI’s, benzodiazepines, NSAID’s, anti-hypertensives, betablockers, adrenergics, calcium channel blockers and steroids - including hormones, inhalers and creams) may influence the results and should be avoided 48 hours prior to the test. The use of HRT can influence the results and should be avoided prior to testing unless wishing to monitor therapy. If monitoring therapy, the specimen should be obtained approximately 8-10 hours AFTER the last dose of oral, transdermal, hormone-containing medication.

Do not discontinue prescription medication unless under the supervision of a doctor.

Test Components:

DHEA-S	Possible Add-on’s:
Dihydrotestosterone (DHT)	Androstenedione
Oestradiol	Follicle Stimulating Hormone
Free Testosterone	Luteinizing Hormone
Insulin-Like Growth Factor 1 (IGF-1)	Prolactin
Prostate Specific Antigen (PSA)	Vitamin D
Sex Hormone Binding Globulin (SHBG)	

Specimen Type:

Serum

TAT:

20 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END07 Reverse T3

Description

Under certain conditions, the conversion of T4 to T3 can be impaired, resulting in high levels of reverseT3 (rT3). Although chemically similar to T3, reverse T3 is completely inactive and lowers the amount of active thyroid hormone available to the cells. A selenium deficiency, excess physical, mental and environmental stresses can all inhibit the deiodinating enzyme which is responsible for this conversion. This can be termed ‘sick euthyroid’ or ‘low T3 syndrome’. Reverse T3 can be included in the Total Thyroid Screen on request.

Specimen Type:

Serum

TAT:

10 days

Patient Requirements:

Please refer to full instructions sent with the kit

END06 Total Thyroid Screen**Description**

This test analyses serum levels of TSH, total T4, free T4, free T3, anti-TG antibodies, and anti-TPO antibodies to assess central and peripheral thyroid function, as well as thyroid auto-immunity.

Patient Requirements:

Please refer to full instructions sent with the kit.

Test Components:

Anti-Thyroglobulin Antibodies	FT4
Peroxidase Antibodies	TSH
FT3	TT4

Specimen Type:

Serum

TAT:

10 days

END27 Thyroid Plus**Description**

This test is a more cost effective way of combining the Total Thyroid Screen with Reverse T3 to give the full picture of thyroid health status. Thyroid imbalances have far reaching effects and elicit fatigue, depression, coldness, constipation, poor skin, headaches, PMS, dysmenorrhea, fluid retention, weight gain, anxiety/panic attacks, decreased memory and concentration, muscle and joint pain and a low sex drive

Patient Requirements:

Please refer to full instructions sent with the kit.

Test Components:

Anti-Thyroglobulin Antibodies
Peroxidase Antibodies
FT3
FT4
Reverse T3
TSH
TT4

Specimen Type:

Serum

TAT:

10 days

END13 Menopause™**Description:**

Although menopause is a normal part of a woman's maturation, many women can experience discomfort both during and after menopause. This profile includes the 1-Day Progesterone / Oestradiol Test (END12) as well as Testosterone (END16) and also measures levels of anti- and pro-carcinogenic oestrogen metabolites (2 and 16 alpha-hydroxy derivatives of oestrogen) which can help assess if there is an increased oestrogen-sensitive cancer risk. It also measures a bone collagen peptide which serves as a specific marker of bone resorption.

Patient requirements:

The use of natural progesterone or HRT can influence the results and should be avoided prior to testing unless wishing to monitor therapy. If monitoring therapy specimen should be obtained approximately 8-10 hours AFTER the last dose of oral, transdermal, or vaginal hormone containing medication. Do not discontinue any prescription.

Test Components:

16 alpha-hydroxyoestrone	Progesterone
2 - Hydroxyoestrone	Progesterone/Oestradiol ratio
Creatinine	Pyridinium Crosslinks Urine
Deoxyypyridinoline Urine	Testosterone
Oestradiol	

Specimen Type:

Saliva and Urine

TAT:

21 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END14 Menopause Plus™**Description:**

Although menopause is a normal part of a woman's maturation, many women can experience discomfort both during and after menopause. This profile includes the 1-Day Progesterone / Oestradiol Test (END12) as well as Testosterone (END16) and also measures levels of anti- and pro-carcinogenic oestrogen metabolites (2 and 16 alpha-hydroxy derivatives of oestrogen), which can help assess if there is an increased oestrogen-sensitive cancer risk.

Patient requirements:

The use of natural progesterone or HRT can influence results and should be avoided prior to testing unless wishing to monitor therapy. If monitoring therapy specimen should be obtained approximately 8-10 hours AFTER the last dose of oral, transdermal, or vaginal hormonecontaining medication. Do not discontinue any prescription medication unless under the supervision of a doctor.

Test Components:

16 alpha-hydroxyoestrone	DHEA	Progesterone/
2 - Hydroxyoestrone	Oestradiol	Oestradiol ratio
Cortisol	Melatonin	Testosterone
Creatinine	Progesterone	

Specimen Type:

Saliva and Urine

TAT:

21 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END10 Rhythm™**Description:**

This test measures the monthly fluctuations in oestradiol and progesterone over the course of a menstrual cycle as well as testosterone levels, imbalances of which can produce a range of symptoms. This test is recommended for pre-menopausal women. Salivary testing of these three hormones, unlike serum testing, measures the free un-bound fraction of hormone.

Patient Requirements:

The use of any hormone supplementation or IUD device will influence the results. Do not discontinue prescription medication unless under the supervision of a doctor.

Test Components:

Oestradiol
Progesterone
Progesterone/Oestradiol ratio
Testosterone

Specimen Type:

Saliva

TAT:

10 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END11 Rhythm Plus™**Description:**

This comprehensive profile assesses the adrenocortical hormones cortisol and DHEA as well as levels of the sex hormones progesterone, oestrogen and testosterone. An inappropriate stress response is reported to have a negative impact on the female hormones. In addition, melatonin levels, an important modulator of annual and circadian biorhythms, are also measured. This test is recommended for pre-menopausal women.

Patient Requirements:

Please ensure no steroid medication (hormones, inhalers and creams) are used unless wishing to monitor therapy. The use of the contraceptive pill, natural progesterone or HRT will influence the results and should be avoided prior to testing unless wishing to monitor therapy. Do not discontinue prescription medication unless under the supervision of a doctor.

Test Components:

Cortisol	Melatonin	Progesterone /
DHEA	Progesterone	Oestradiol Ratio
Oestradiol	Testosterone	

Specimen Type:

Saliva

TAT:

10 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END03 DHEA Level**Description:**

Dehydroepiandrosterone (DHEA) is the most abundant steroid hormone circulating in the body and is used to synthesise several hormones, especially oestrogen and testosterone. As well as maintaining sex hormone levels, it also helps to counteract the damaging effects of stress. Low levels of DHEA are found in many chronic diseases.

Patient Requirements:

Please ensure no DHEA is taken 48 hours prior to the test, unless wishing to monitor therapy.

Specimen Type:

Saliva

TAT:

10 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END17 Male Hormones Plus™**Description:**

In addition to analysis of testosterone, Male Hormones Plus includes the Adrenocortex Stress Profile and the Comprehensive Melatonin Profile to reveal how testosterone is influenced by cortisol, DHEA, and Melatonin.

Patient Requirements:

Steroids (including hormones, inhalers and creams) and testosterone will influence the results, therefore avoid prior to testing, unless wishing to monitor therapy. Do not discontinue prescription medication unless under the supervision of a doctor.

Test Components:

Cortisol	Melatonin
DHEA	Testosterone

Specimen Type:

Saliva

TAT:

12 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END12 One Day Progesterone/Oestradiol**Description:**

This test includes the measurement of oestradiol and progesterone from a single saliva sample. It is recommended for post-menopausal women, those taking hormone supplementation or as an economical means of assessing luteal-phase hormone levels in pre-menopausal women.

Patient Requirements:

Sample taken on day 21 of menstrual cycle for pre-menopausal women, or any day for post-menopausal women. The use of the contraceptive pill, natural progesterone or HRT can influence the results, and should be avoided prior to testing unless wishing to monitor therapy. If monitoring therapy, the specimen should be obtained approximately 8-10 hours AFTER the last dose of oral, transdermal or vaginal hormone-containing medication. Do not discontinue prescription medication unless under the supervision of a doctor.

Test Components:

Oestradiol	Progesterone	Progesterone/Oestradiol ratio
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Specimen Type:

Saliva

TAT:

10 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END01 Adrenal Stress Profile**Description:**

This test examines 4 saliva samples over a 24-hour period for levels of cortisol and DHEA. Imbalances in these hormones are associated with ailments ranging from obesity and chronic fatigue to immune deficiency and increased risk of cardiovascular disease.

Patient Requirements:

Please ensure no steroid medications (including hormones, inhalers and creams) are taken 48 hours prior to the test, unless wishing to monitor therapy. Please note that long-term steroid use may influence results.

Test Components:

Cortisol	DHEA
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Specimen Type:

Saliva

TAT:

10 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END16 Testosterone**Description:**

This test measures salivary testosterone levels, the principal androgen in men, and can allow for the detection of hormonal imbalances related to symptoms of male andropause as well as those related to imbalanced testosterone commonly found in women. This test can be used to assess baseline levels and monitor testosterone replacement therapy.

Patient Requirements:

Avoid alcohol for 24 hours prior to test. In addition, testosterone hormone medication will influence results and should be avoided for 24 hours prior to sample collection unless monitoring therapy. Do not discontinue prescription medication unless under the supervision of a doctor.

Specimen Type:

Saliva

TAT:

10 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END23 Complete Hormones™ FMV/24Hr**Description:**

This comprehensive urinary hormone metabolism evaluation is designed to assist in the prevention and treatment of hormone-related symptoms and conditions. This test assesses progesterone metabolites, adrenal hormones & metabolites, anabolic/catabolic balance, oestrogens and metabolites and methylation capacity. This may be useful in cases of menstrual irregularities, infertility, menopause, fatigue, breast cancer and osteoporosis.

Test Components:

11-Hydroxy-androsterone
 11-Hydroxy-etiocholanolone
 11-Keto-androsterone
 11-Keto-etiocholanolone
 16 alpha-hydroxyoestrone
 2-Hydroxyoestrone
 2-Methoxyoestrone
 4-Hydroxyoestrone
 4-Methoxyoestrone
 Androstenediol
 Androsterone
 Creatinine
 DHEA
 Oestradiol
 Oestriol
 Oestrone
 Etiocholanolone
 Pregnanediol
 Pregnanetriol
 Specific Gravity
 Testosterone
 Tetrahydrocortisol, THF
 Tetrahydrocortisone, THE
 Tetrahydrodeoxycortisol
 allo-Tetrahydrocortisol,
 a-THF

Optional Add-on's:

Cortisol (with 24 hr only)
 T3 (with 24 hr only)
 Aldosterone (with 24 hr only)

Add-on Genomics

Add-On Genomics SNP - CYP-1B1 (Combined L432V + N453S)
 Add-On Genomics SNP - MTHFR Combined (A1298C + C677T)
 Add-On Genomics SNP - VDR
 Add-On Genomics SNP - COMT (V158M)

Specimen Type:

Urine

TAT:

23 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END21 Essential Oestrogens FMV/24Hr**Description:**

The balance of anti- and pro-carcinogenic metabolites of oestrogen are investigated with this test, which measures the 2- and 16-alpha-hydroxy derivatives of oestrogen. The Oestrogen Metabolism Assessment (below) may be applicable for patients who present with a family history of hormonal cancers or oestrogen dominance.

Test Components:

16 alpha-hydroxyoestrone	2-Hydroxyoestrone Ratio	Optional Add-on's:
2 Hydroxy:16 alpha-hydroxyoestrone Ratio	4 - Hydroxyoestrone	Cortisol (with 24 hr only)
2 - Hydroxyoestrone	4 - Methoxyoestrone	T3 (with 24 hr only)
2 - Methoxyoestrone	Oestradiol	Aldosterone (with 24 hr only)
2-Methoxyoestrone:	Oestriol	
	Oestrone	

Specimen Type:

Urine

TAT:

23 days

Patient Requirements:

Please refer to full instructions sent with the kit.

Add-on Genomics:

See Complete Hormones (END23) page 49

END19 Oestrogen Metabolism Assessment**Description:**

The balance of anti- and pro-carcinogenic metabolites of oestrogen are investigated with this test which measures the 2- and 16-alpha-hydroxy derivatives of oestrogen. The Oestrogen Metabolism Assessment may be applicable for patients who present with a family history of hormonal cancers or oestrogen dominance.

Patient Requirements:

Collection is preferred on day 18 – 25 after the start of the menstrual cycle. It is not necessary to discontinue supplements or oral hormones prior to this test. Abnormalities that may be found will reveal special needs not met by recent dietary or supplemental intake.

Test Components:

16 alpha-hydroxyoestrone	Creatinine
2-Hydroxyoestrone	

Specimen Type:

Urine

TAT:

23 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END20 Oestrogen Metabolism Plus FMV/24Hr**Description:**

This profile evaluates the important oestrogen metabolites (2/4/16a-hydroxyestrones) as well as their methylated byproducts which provides valuable information about oestrogen-related diseases such as breast cancer, prostate disease risk, osteoporosis and certain autoimmune conditions. Oestrogen methylation is a critical step in the protective mechanism of oestrogen metabolism: methylation is required for the protective effects of 2-hydroxy-estrone and for the safe detoxification of 4-hydroxy-estrone.

Test Components:

16 alpha-hydroxyoestrone	4 - Hydroxyoestrone
2 hydroxy:16 alpha-hydroxyoestrone Ratio	4 - Methoxyoestrone
2 - Hydroxyoestrone	4 - Hydroxyoestrone/
2 - Methoxyoestrone	4 - Methoxyoestrone Ratio
2-Methoxyoestrone:2-Hydroxyoestrone Ratio	

Specimen Type:

Urine

TAT:

23 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END25 Urine Iodine**Description:**

Iodine is an essential trace element vital for healthy thyroid function. Adequate levels are required to enable the production of T3 and T4 thyroid hormones, whilst also being required in other areas of health. Deficiencies can lead to impaired heat and energy production, mental function and slow metabolism. Urine iodine is one of the best measures of iodine status. This test is not performed as a loading test, but can be used to establish existing levels or to monitor iodine supplementation.

Specimen Type:

Urine

TAT:

5 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END08 Urine Thyroid Hormones (T3/T4)**Description:**

The elevation of thyroid hormone levels in urine assesses tissue exposure to thyroid hormones over a 24-hour period. The urine thyroid test therefore serves as a valuable tool for detecting those patients that are suffering from thyroid dysfunction, particularly low grade hypothyroidism who might otherwise go undetected through standard blood tests. It is important to use this test as an adjunct to other indicators of thyroid function, such as body temperature, symptomology and standard blood thyroid tests.

Test Components:

T3 (urine)
T4/T3 Ratio
T4 (urine)

Specimen Type:

Urine

TAT:

17 days

Patient Requirements:

Please refer to full instructions sent with the kit.

END26 Urine Thyroid Hormones (T3/T4) + Iodine**Description:**

A cost effective method of combining the urine thyroid hormone test (T3 & T4 only) with urinary iodine. Iodine is vital for optimal thyroid health and deficiencies are often implicated in hypothyroidism.

Test Components:

Iodine
T3 (urine)
T4/T3 Ratio
T4 (urine)

Specimen Type:

Urine

TAT:

17 days

Patient Requirements:

Please refer to full instructions sent with the kit.

0142 Estronex® Profile**0145 Estronex® Profile with Bone Resorption Assay****Description:**

The Estronex® Profile measures six important estrogen metabolites and their ratios to help women, and even men, assess whether he or she is at risk of developing estrogen sensitive cancers.

Patient Requirements:

Please refer to full instructions sent with the kit.

Test Components:

16 alpha-hydroxyoestrone
2-Hydroxyestrogens (2-OHE) - Sum of 2-Hydroxyoestrone (2-OHE1) and 2-HydroxyOestradiol (2-OHE2)
2-hydroxyestrone (2-OHE1)
2-Methoxyoestrone (2-OMeE1)
4-Hydroxyoestrone (4-OHE1)
4-Methoxyoestrone (4-OMeE1)
2-OHE:16α-OHE1 Ratio
2-OHE:2-OMeE1 Ratio
Creatinine

0145 Includes

Bone collagen peptide (deoxypyridinoline or DPD)

Specimen Type:

Urine

TAT:

12 days

Patient Requirements:

Please refer to full instructions sent with the kit.

Oestrogen Metabolism Assessment, Serum

Description:

This specialised sub-panel reveals the biodynamics of two key estrogen metabolites. This can be used as a focused follow-up to monitor clinical interventions (including hormone therapy, diet and lifestyle changes).

Patient Requirements:

The use of the contraceptive pill, natural progesterone or HRT can influence the results, and should be avoided prior to testing unless wishing to monitor therapy. If monitoring therapy, the specimen should be obtained approximately 8-10 hours after the last dose of oral, transdermal or vaginal hormone-containing medications

Test Components:

16 alpha-hydroxyestrone
2-hydroxyestrone
Creatinine

Specimen Type:

Serum

TAT:

10 days

Patient Requirements:

Please refer to full instructions sent with the kit.

One Day Hormone Check

Description:

The One Day Hormone Check™ is an effective salivary hormone test for evaluating key hormone levels during a 24-hour period.

Patient Requirements:

Please ensure no steroid medications (hormones, inhalers and creams) are taken, unless wishing to monitor therapy. The use of the contraceptive pill, natural progesterone or HRT will influence the results and should be avoided prior to testing unless wishing to monitor therapy. Do not discontinue prescription medication unless under the supervision of a doctor

Test Components:

Cortisol
DHEA
Estradiol
Estriol
Estrone
Melatonin
Progesterone
Testosterone

Specimen Type:

Saliva

TAT:

10 days

Patient Requirements:

Please refer to full instructions sent with the kit.

GENOMICS TESTING

Genovations tests are only available to medically trained doctors or Clinicians who are appropriately trained in genetics testing. Please note: proof of certification will be required.

Genova offer the following Genomic profiles, however individual Single Nucleotide Polymorphisms (SNPs) may be added by request to these profiles. Please contact the laboratory for pricing. It may also be possible for SNPs to be ordered individually. Please contact the laboratory to discuss this.

<p>GEN01 CardioGenomicPlus® Profile</p> <p>Description: Evaluates genetic variations, called single nucleotide polymorphisms (SNPs), in genes that modulate blood pressure regulation, lipid balance, nutrient metabolism, inflammation and oxidative stress.</p> <p>Test Components:</p> <table border="0"> <tr> <td>AGTR1 (angiotensin II receptor-1)</td> <td>MTHFR (C677T and A1298C)</td> </tr> <tr> <td>APOE (Apolipoprotein E)</td> <td>(methylenetetrahydrofolate reductase)</td> </tr> <tr> <td>CETP (cholesteryl ester transfer protein)</td> <td>PAI-1</td> </tr> <tr> <td>Factor 2 (prothrombin)</td> <td>SELE (selection E)</td> </tr> <tr> <td>Factor 5 (Leiden)</td> <td></td> </tr> <tr> <td>GNB3 (guanine nucleotide-binding protein)</td> <td></td> </tr> <tr> <td>GP3a</td> <td></td> </tr> </table>	AGTR1 (angiotensin II receptor-1)	MTHFR (C677T and A1298C)	APOE (Apolipoprotein E)	(methylenetetrahydrofolate reductase)	CETP (cholesteryl ester transfer protein)	PAI-1	Factor 2 (prothrombin)	SELE (selection E)	Factor 5 (Leiden)		GNB3 (guanine nucleotide-binding protein)		GP3a		<p>Specimen Type: Buccal Swab</p> <p>TAT: 23 days</p> <p>Patient Requirements: Please refer to full instructions sent with the kit.</p>
AGTR1 (angiotensin II receptor-1)	MTHFR (C677T and A1298C)														
APOE (Apolipoprotein E)	(methylenetetrahydrofolate reductase)														
CETP (cholesteryl ester transfer protein)	PAI-1														
Factor 2 (prothrombin)	SELE (selection E)														
Factor 5 (Leiden)															
GNB3 (guanine nucleotide-binding protein)															
GP3a															
<p>GEN04 EstroGenomic® Profile</p> <p>Description: Evaluates genetic variations, called single nucleotide polymorphisms (SNPs) in genes that modulate estrogen metabolism, coagulation, cardiovascular disease and osteoporosis.</p> <p>Test Components:</p> <table border="0"> <tr> <td>APOE</td> <td>GSTM1</td> </tr> <tr> <td>COMT</td> <td>GSTP1</td> </tr> <tr> <td>CYP1A1</td> <td>IL-6</td> </tr> <tr> <td>CYP1B1</td> <td>MTHFR (C677T and A1298C)</td> </tr> <tr> <td>Factor 2</td> <td>PAI-1</td> </tr> <tr> <td>Factor 5</td> <td>TNF - alpha</td> </tr> <tr> <td>GP3a</td> <td>VDR (Vitamin D3 receptor)</td> </tr> </table>	APOE	GSTM1	COMT	GSTP1	CYP1A1	IL-6	CYP1B1	MTHFR (C677T and A1298C)	Factor 2	PAI-1	Factor 5	TNF - alpha	GP3a	VDR (Vitamin D3 receptor)	<p>Specimen Type: Buccal Swab</p> <p>TAT: 23 days</p> <p>Patient Requirements: Please refer to full instructions sent with the kit.</p>
APOE	GSTM1														
COMT	GSTP1														
CYP1A1	IL-6														
CYP1B1	MTHFR (C677T and A1298C)														
Factor 2	PAI-1														
Factor 5	TNF - alpha														
GP3a	VDR (Vitamin D3 receptor)														
<p>GEN05 ImmunoGenomic® Profile ~</p> <p>Description: Evaluates genetic variations in genes that modulate immune and inflammatory activity. These variations can affect balance between cell (Th-1) and humoral (Th-2) immunity, trigger potential defects in immune system defense and stimulate mechanisms underlying chronic, overactive inflammatory responses.</p> <p>Test Components:</p> <table border="0"> <tr> <td>IL-10 (interleukin - 10)</td> <td>TNF - alpha (tumor necrosis factor - alpha)</td> </tr> <tr> <td>IL-13 (interleukin - 13)</td> <td></td> </tr> <tr> <td>IL-1B (interleukin - 1 beta)</td> <td>Possible Add on:</td> </tr> <tr> <td>IL-4 (interleukin -4)</td> <td>Apo-E</td> </tr> <tr> <td>IL-6 (interleukin - 6)</td> <td></td> </tr> </table>	IL-10 (interleukin - 10)	TNF - alpha (tumor necrosis factor - alpha)	IL-13 (interleukin - 13)		IL-1B (interleukin - 1 beta)	Possible Add on:	IL-4 (interleukin -4)	Apo-E	IL-6 (interleukin - 6)		<p>Specimen Type: Buccal Swab</p> <p>TAT: 23 days</p>				
IL-10 (interleukin - 10)	TNF - alpha (tumor necrosis factor - alpha)														
IL-13 (interleukin - 13)															
IL-1B (interleukin - 1 beta)	Possible Add on:														
IL-4 (interleukin -4)	Apo-E														
IL-6 (interleukin - 6)															

GEN03 DetoxiGenomic® Profile**Description:**

Evaluates SNPs associated with increased risk of impaired detoxification capacity especially when exposed to environmental toxins. It also identifies individuals potentially susceptible to adverse drug reactions.

Test Components:

COMT V158M	CYP3A4*3
CYP 1B1 N453S	GSTM1
CYP1A1*2A	GSTP1
CYP1A1*2C	NAT 1 R187Q
CYP1B1 L432V	NAT 1 R64W
CYP2A6*2	NAT 2 G286E
CYP2C19*2	NAT 2 I114T
CYP2C19*3	NAT 2 K268R
CYP2C9*2	NAT 2 R197Q
CYP2C9*3	NAT 2 R64Q
CYP2D6*3	SOD 1 A4V
CYP3A4*15	SOD 1 G93A
CYP3A4*1B	SOD-2 (Superoxide dismutase -2)

Possible Add on:

Apo-E

Specimen Type:

Buccal Swab

TAT:

23 days

Patient Requirements:

Please refer to full instructions sent with the kit.

GEN06 NeuroGenomic™ Profile**Description:**

Evaluates single nucleotide polymorphisms (SNPs) in genes that modulate methylation, glutathione conjugation, oxidative protection and the potential to evaluate vascular oxidation.

Test Components:

COMT
 GSTM1 (Glutathione-s transferase, M, isoform)
 GSTP1 (Glutathione-s transferase, P, isoform)
 MTHFR (C677T and A1298C) (methylenetetrahydrofolate reductase)
 SOD-2 (Superoxide dismutase -2)

Possible Add on:

Apo-E

Specimen Type:

Buccal Swab

TAT:

23 days

Patient Requirements:

Please refer to full instructions sent with the kit.

Genomic Profiles Biomarkers Comparison Table

Biomarkers	GEN01 CARDIO	GEN04 ESTRO	GEN05 IMMUNO	GEN03 DETOX	EN06 NEURO
ApoE (apolipoprotein E)	.	.			
CETP (cholesteryl ester transfer protein)	.				
SELE (selectin E)	.				
MTHFR (methylene tetrahydrofolate reductase)	.	.			.
GNB3 (guanine nucleotide-binding protein)	.				
AGTR1 (angiotensin II receptor-1)	.				
Factor 2 (prothrombin)	.	.			
Factor 5 (Leiden)	.	.			
PAI-1 (Plasminogen activator inhibitor-1)	.	.			
GP3a (Glycoprotein 3)	.	.			
COMT (catechol-O-methyltransferase)		.		.	.
TNF-a (tumor necrosis factor-alpha)		.	.		
IL-1β (interleukin-1beta)			.		
IL-4 (interleukin-4)			.		
IL-6 (interleukin-6)		.	.		
IL-10 (interleukin-10)			.		
IL-13 (interleukin-13)			.		
CYP1A1 (Cytochrome P-450)		.		.	
CYP2A6 (Cytochrome P-450)				.	
CYP2C19 (Cytochrome P-450)				.	
CYP1B1 (Cytochrome P-450)		.		.	
CYP2D6 (Cytochrome P-450)				.	
CYP2C9 (Cytochrome P-450)				.	
CYP3A4 (Cytochrome P-450)				.	
NAT1 (N-acetyl transferase -1)				.	
NAT2 (N-acetyl transferase -2)				.	
GSTM1 (Glutathione-s transferase, M, isoform)		.		.	.
GSTP1 (Glutathione-s transferase, P, isoform)		.		.	.
SOD1 (superoxide dismutase -1)				.	
SOD2 (superoxide dismutase -2)				.	.



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