

**WELL  
LIVED  
GOOD**



# Body Intolerance Results Guide

Start your journey towards a healthier life

# Table of contents

<b>Understanding your results</b>	<b>04</b>
<b>How our testing works</b>	<b>06</b>
<b>Your next steps</b>	<b>07</b>
<b>Elimination diet</b>	<b>08</b>
<b>Reintroduction diary</b>	<b>10</b>
<b>Complementary and alternative medicine</b>	<b>11</b>
<b>Customer testimonials</b>	<b>12</b>
<b>Food &amp; drink sensitivity analysis</b>	<b>13</b>
<b>Botanical sensitivity analysis</b>	<b>17</b>
<b>Metal sensitivity analysis</b>	<b>18</b>
<b>Additive sensitivity analysis</b>	<b>21</b>
<b>Gut health sensitivity analysis</b>	<b>25</b>
<b>Digestion sensitivity analysis</b>	<b>26</b>
<b>Anti-aging sensitivity analysis</b>	<b>27</b>
<b>Stress &amp; inflammation sensitivity analysis</b>	<b>28</b>
<b>Sleep hormone analysis</b>	<b>30</b>
<b>Skin health analysis</b>	<b>32</b>
<b>Nutrition sensitivity analysis</b>	<b>33</b>



# Understanding your results

Every item tested is classified to one of the following three reactivity levels:

## **High Reactivity / Outside Range**

These are the items that our testing shows you are most likely to be sensitive to or fall outside of optimal range.

These may be causing or contributing to physical symptoms. We would recommend the removal of these items from your daily diet for 6-8 weeks using a structured elimination diet, followed by a gradual reintroduction.

## **Moderate Reactivity**

These are the items that our testing shows you may be sensitive to.

These may have the potential to cause or contribute to physical symptoms. We would always recommend prioritising the removal of the high reactivity items first and then considering the removal of moderate items for 4-6 weeks, and subsequent reintroduction.

It is also worth considering that having these items in isolation may not cause symptoms, however having a number of moderate reactivity items in the same meal or day may lead to symptoms due to an accumulative effect.

## **No Reactivity / Within Range**

These are the items that our testing shows you do not have sensitivity to or fall within optimal range.

# Interpreting your results – explainer

## Sensitivity NOT Allergy

It is important to reiterate that this test is NOT for allergy. It is easy to confuse allergy and sensitivity or intolerance as the different terms are often used interchangeably, which leads to misinterpretation. Allergy and sensitivity are not the same. Of course if someone is allergic to a food item it could be described as being 'sensitive' however as a health condition allergy is different from sensitivity or intolerance.

There are a couple of fundamental differences between allergy and sensitivity; having food sensitivity may be uncomfortable and cause symptoms that, whilst annoying, embarrassing or even debilitating, do not have the potential to be life-threatening like those caused by food allergy; food sensitivity can also change over time, it can often be overcome through implementation of a food elimination diet and/or improving gut health, however food allergy tends to be lifelong.

The physiological process, which takes place in the body during an allergic reaction, is also entirely different to that of sensitivity. An allergic reaction involves the immune system and cells called antibodies, whereas this is not involved in sensitivity. Hair testing does not test antibody levels therefore this is why it cannot be used to test for allergy.

## Known Allergy

You may have a known allergy; so let's help you to interpret sensitivity results to this item.

### Scenario 1

The item you are allergic to shows as a moderate or high reactivity item.

This means that as well as a food allergy you have food sensitivity. If you have already removed this item from your diet you do not need to take any action. If you have not removed it previously, it is worth considering doing so, however we would not recommend reintroduction following the elimination diet.

### Scenario 2

The item you are allergic to shows as a no reactivity item.

This means that you do not have food sensitivity to this item however the result does not question or contradict the presence of your food allergy to the item. It does NOT mean you should reintroduce the item to your diet, you should respect the symptoms or test results you have had previously with regards to allergy. Remember this test does not test for allergy.



# Elimination diet

## What is an elimination diet?

An elimination diet is conducted over a short period of time, normally around four weeks. In certain cases a person may be recommended to conduct a longer elimination diet, however generally around four weeks is sufficient time to get good results. At the end of this period you can reintroduce items one by one at the same time as monitoring your symptoms and general wellbeing.

## How does it work?

In the removal and then reintroduction of items you get a clear understanding of those foods which make you feel good, allow you to think with clarity and leave you feeling energised and those which make you feel lethargic, sluggish, sap your energy levels and provoke symptoms like bloating or headaches.

**1**

### Elimination phase

All high and medium reactive foods are removed from the diet, along with any known allergy or intolerant foods. You can eat freely from those foods in the no reactivity category. You should aim for this phase to last four weeks.

**2**

### Reintroduction phase

During the reintroduction phase you should bring one item in at a time and then monitor symptoms for the next two days.

You will find a reintroduction diary on page 11, where you can note the food and drinks that you consume along with any symptoms you experience.

## What can't you eat on an elimination diet?

Each person will be different in the foods they should eliminate during the elimination phase. The priority items to remove are those which are shown in the high reactivity category. If eliminating these items alone seems like a big undertaking stick with the removal of only these items. However if you feel you can also achieve the removal of those foods in the medium reactivity category during the elimination phase also do so.

You must also respect any known allergies or intolerances. For example if you know you are allergic to wheat or lactose intolerant and it comes up in the no reactivity section, do not bring it back into your diet.

## What can you eat on an elimination diet?

You can eat any items, which are shown as having no reactivity, except any to which you have known allergies or intolerances.

## What's important during an elimination diet?

In removing items from your diet you are also removing nutrients. Whilst it is only for a short period of time it remains important that you maintain a good daily intake of vitamins and minerals through your diet. Please consult 'the role of food types' page to ensure that in the removal of items you are still getting the given nutrient through other sources.



## What happens after an elimination diet?

Following an elimination diet you should have good clarity on which foods work well for you and which provoke symptoms or make you feel less than your best. If you do find there are items or food groups, which provoke symptoms, it is worth considering the reduction or removal of these items from your diet.

Should you choose to greatly reduce or eliminate an item or food group from your diet ensure you replace the nutrients you would have got from the item or food group with alternative sources.

To get the best from your diet and to support your health and wellbeing ensure that, in the most part, your food comes from non-processed, natural sources and contains a breadth of vitamins and minerals.

# Reintroduction diary

Start date: \_\_\_/\_\_\_/\_\_\_

## Typical symptoms to record:

- Vomiting
- Diarrhoea
- Abdominal pain
- Bloating
- Flatulence
- Loose stools
- Itchy or inflamed skin
- Cough

	Morning Food	Morning Symptom	Afternoon Food	Afternoon Symptom	Evening Food	Evening Symptom
Day 1						
Day 2						
Day 3						
Day 4						
Day 5						
Day 6						
Day 7						

For each food that you reintroduce, think about the symptoms on your list and use none, mild, moderate, or severe to describe your reaction to it in the boxes provided. This will help you remember later when you look back.



# Complementary and alternative medicine



## What is Complementary and Alternative Medicine?

Bioresonance therapy and testing is categorised as a complementary and alternative medicine (CAM). This is a diverse group of therapies, practices and products, which fall outside of conventional medicine or healthcare.

A complementary therapy is used alongside conventional medicine or treatment, whilst alternative therapy is used in place of conventional medicine or treatment. Some therapies or practices could be used as either complementary or alternative; it depends on whether it is combined with conventional medicine alongside or not.

Other therapies and practices, which are considered complementary and alternative medicine:

- Aromatherapy
- Acupuncture
- Homeopathy
- Massage therapy
- Naturopathy
- Osteopathy
- Pilates
- Yoga



## Finding Complementary and Alternative Medicine Practitioners

When using complementary and alternative medicine it is important that you look for a practitioner who is registered with a regulatory body for their field of expertise.

If you think you have a health condition always seek advice from your GP first.

The NHS and CAMs:

<https://www.nhs.uk/conditions/complementary-and-alternative-medicine/>



# Food & drink sensitivities

## The role of food types

As well as providing energy for the body food also contains nutrients in the form of vitamins and minerals. Vitamins and minerals are considered essential as they enable the body to complete literally hundreds of tasks, which are vital for day-to-day function, health and wellbeing. To name a few vitamins and minerals facilitate energy production, hormone production, wound healing, immune system function, blood clotting and foetal development.

The diagram below gives an overview of a few of the richest sources of each nutrient and some of the functions it performs within the body. You can refer to this diagram to ensure that in removing items from the diet you replace the relevant nutrients through other dietary sources.

## Vitamins & Minerals

**Brain & nervous system function**, **Beautiful skin, hair & nails**, **Prevents cancer**, **Normal muscle function**, **Healthy eyes**, **Healthy teeth**, **Healthy heart**, **Pregnancy**, **Energy source**, **Prevents arthritis**, **Healthy thyroid**, **Healthy bones**, **Anti-aging**, **Immune system**, **Normal blood formation**, **Normal digestion**

Chicken	Carrots	<b>A</b> Retinol	Seeds	Beans & Lentils
Peppers	Butter	<b>B1</b> Thiamine	Cheese	Almonds
Peas	Seafood	<b>B2</b> Riboflavin	Liver	Nuts & Seeds
Yoghurt	Poultry	<b>B5</b> Pantothenic Acid	Oysters	Lobster
Bananas	Avocado	<b>B6</b> Pyridoxine	Tofu	Beans & Lentils
Asparagus	Fish & Meat	<b>B9</b> Folate	Cashews	Whole-grain
Chicken	Avocado	<b>C</b> Ascorbic Acid	Cod	Tuna
Mushrooms	Grains	<b>D</b> Vitamin D	Shrimp	Eggs
Pork	Eggs	<b>E</b> Vitamin E	Bananas	Sweet Potatoes
Soy Beans	Bread	<b>B3</b> Niacin	Oranges	Mushrooms
Asparagus	Beets	<b>B7</b> Biotin	Leafy Greens	Dark Chocolate
Leafy Greens	Citrus Fruits	<b>B12</b> Cobalamine	Raspberries	Seafood
Broccoli	Peppers	<b>K</b> Potassium	Nuts	Yeast Breads
Spinach	Potatoes	<b>K</b> Vitamin K	Beans	Cured Meats
Fish	Beef	<b>Ca</b> Calcium	Chicken	Sunflower Seeds
Mushrooms	Egg Yolks	<b>Cu</b> Copper	Seafood	Nuts
Vegetable Oils	Leafy Greens	<b>Fe</b> Iron	Brazil Nuts	Brown Rice
Nuts	Olives	<b>I</b> Iodine	Ham	Spinach
Chicken	Peanuts	<b>Mg</b> Magnesium	Fish	Eggs
Tuna	Peas	<b>Na</b> Sodium	Meat	Milk
Eggs Yolks	Avocado	<b>P</b> Phosphorus	Leafy Greens	Chicken
Salmon	Sweet Potato	<b>Se</b> Selenium	Broccoli	Kiwi

## Everyday Foods

It is common for a food item consumed in the daily diet or very frequently, to test as a moderate or high sensitivity item. This can happen with food sensitivity and may be due to the body suddenly struggling to process or breakdown particular constituents of the food. This could be caused by overconsumption of a food group or could be down to an imbalance in gut bacteria or the presence of low-level inflammation in the gut.

Whatever the cause do not despair. We are talking about food sensitivity and NOT allergy; therefore completing a food elimination diet with subsequent reintroduction can help. This may mean you need to eliminate a favourite food or staple in your diet for a period of weeks but you will be able to reintroduce the item. Eliminating food items for a period of time can allow the gut time to 'rest' from trigger foods and the reintroduction of items can allow you to assess how a food or food group makes you feel.

## Gut Nourishment

In most cases carrying out an elimination diet is enough to improve symptoms and allow for a greater understanding of any foods, which aren't agreeing with the body. It is also worth considering the nourishment of the digestive tract and addressing any gut bacteria imbalances to further improve gut function and reduce digestive symptoms.

### **Complementary Alternative Medicine (CAMs)**

Our food sensitivity tests are carried out using bioresonance therapy and is categorised under Complementary and Alternative Medicines (CAMs) which covers a wide range of therapies that fall outside mainstream medicine. Tests and related information provided do not make a medical diagnosis nor is it intended to be a substitute for professional medical advice, diagnosis or treatment.

Always seek the advice of your doctor or other qualified health provider if you have a medical condition or with any questions you may have regarding a medical condition and/or medical symptoms.

# Sources of vitamins

## Water-soluble vitamins

### B Vitamins

Oats, whole wheat, rye, buckwheat, brown rice, Brewer's yeast, peanuts, mushrooms, soybean flour and soybeans, split peas, pecans, sunflower seeds, lentils, cashews, chickpeas, broccoli, hazelnuts, peppers.

### B12

Oysters, mussels, scallops, liver, mackerel, tuna, salmon, sardines, crab, beef, eggs, yogurt, Swiss cheese, fortified products.

### Vitamin C

Red peppers, guavas, kale, kiwi, broccoli, Brussel sprouts, strawberries, raspberries, blackberries, blueberries, oranges, tomatoes, peas, mange tout, papaya, mango, pineapple, melon.

## Fat-soluble vitamins

### Vitamin A

(Retinol) Liver, beef, lamb, cod liver oil, mackerel, salmon, tuna, paté, goat's cheese, eggs, cheddar, cream cheese, butter, goat's cheese.

### Beta Carotene

#### (Precursor to vitamin A)

Sweet potato, carrots, kale, spinach, collards, Swiss chard, pak choi, butternut squash, pumpkin, cos lettuce, romaine lettuce, mango, dried apricots, prunes, peaches, melon, red peppers, tuna fish, mackerel, butter.

### Vitamin D

Salmon, trout, swordfish, mackerel, tuna, buttermilk, some yogurt, mushrooms, eggs, fortified products.

### Vitamin E

Spinach, kale, broccoli, Swiss chard, turnip greens, collards, avocado, almonds, hazelnuts, pistachios, sunflowers seeds, prawn/shrimp, crayfish, salmon, smoked salmon, swordfish, herring, trout, olive oil, sunflower oil, sweet potato, squashes, kiwi, mango, peach, nectarines, apricots, guava, raspberries, blackberries.

### Vitamin K

Kale, spinach, mustard greens, spring onions, cress, basil, thyme, coriander, sage, parsley, Brussel sprouts, cabbage, chilli powder, paprika, fennel, leeks.

## Minerals

### Calcium

Watercress, kale, broccoli, low fat mozzarella, low fat cheddar, yogurt, pak choi, tofu, sugar snap peas, almonds, tinned sardines in oil with bones, tinned pink salmon.

### Magnesium

Buckwheat, rye, millet, brown rice, whole wheat, kelp, almonds, cashews, brazil nuts, peanuts, walnuts, tofu, coconut, soya beans, figs, apricots, dates, prawns, corn, avocado, spinach, kale, broccoli swiss chard, turnip greens, collards.

### Zinc

Rye, spinach, beef, lamb, pumpkin seeds, sesame seeds, sunflower seeds, cashew nuts, cocoa powder, dark chocolate, pork, chicken, chickpeas, baked beans, mushrooms.

### Iron

Rye, whole wheat, pumpkin seeds, sunflower seeds, sesame seeds, chicken liver, oysters, mussels, clams, cashews, pine nuts, hazelnuts, peanuts, almonds, beef, lamb, lentils, white beans, soybeans, kidney beans, chickpeas, lima beans, oatmeal, spinach, Swiss chard, kale, dark chocolate.

### Manganese

Rye, oats, brown rice, barley, mussels, hazelnuts, pine nuts, pecans, lima beans, chickpeas, aduki beans, lentils, pumpkin seeds, sesame seeds, sunflower seeds, pineapple, spinach, kale, tofu, soybeans, sweet potato, blueberries, raspberries, strawberries.

### Copper

Rye, oats, sesame seeds, cashews, soybeans, mushrooms, sunflower seeds, tempeh, garbanzo beans, lentils, walnuts, lima beans, liver, spirulina, dark chocolate, collard greens, Swiss chard, spinach, kale.

### Phosphorus

Brown rice, oats, rye, whole wheat, chicken, turkey, pork, liver, sardines, scallops, salmon, mackerel, crab, milk, yogurt, cottage cheese, sunflower seeds, pumpkin seeds, Brazil nuts, pine nuts, almonds, pistachios, cashews.

### Potassium

Dried apricots, salmon, mackerel, tuna, monkfish, white beans, lentils, kidney beans, avocado, butternut squash, spinach, mushrooms, bananas, potatoes, low fat yogurt.

### Selenium

Brazil nuts, brown rice, rye, whole wheat, mushrooms, shrimp, sardines, oysters, tuna, sunflower seeds, liver, eggs, beef, turkey, cottage cheese.

# Food & drink analysis



## What is a food sensitivity?

Food sensitivity happens when the body has difficulty digesting a particular food. Having food sensitivity can cause symptoms such as bloating, bowel movement changes, headaches and fatigue. It can also contribute towards symptoms experienced by those with chronic conditions such as irritable bowel syndrome, chronic fatigue, arthritis, autism and ADD/ADHD.



## What is a food allergy?

Food sensitivity should not be confused with food allergy. This test is for food sensitivity ONLY. Food allergy symptoms include coughing, sneezing, runny nose/eyes, itchy mouth/eyes, swelling of the lips/face, rashes, worsening of eczema and/or asthma, wheezing, breathing difficulties, vomiting, diarrhoea and, in rare cases, anaphylaxis. Testing for food allergy can only be done through a blood, skin prick or patch test. If you suspect you have food allergy please see your physician.

## Interpreting your results

To help you with this your food sensitivity ratings will be broken down into either high, moderate or no reactivity ratings. These ratings will help you focus on specific reactivities, along with the relevant actions to take.



### High Reactivity

These are the food items that our testing shows you are most likely to have a sensitivity to or that fall outside of range. We would recommend the removal of these items from your daily diet for 6-8 weeks using a structured elimination diet.



### Moderate Reactivity

These are the food items that our testing shows you may have a sensitivity to. We would recommend the removal of these items from your daily diet for 4-6 weeks using a structured elimination diet.



### No Reactivity

These are the items that our testing shows you do not have sensitivity to or are within optimal range

# Botanical analysis



## What is a botanical sensitivity?

Botanicals such as plants, flowers, shrubs and trees can cause the body to react, which can lead to the production of symptoms such as headaches and fatigue. If you suspect you have an allergy please see your physician. It is important to note that this is not an allergy test. Any known pollen allergies you know you have may or may not come up in this test.

## Interpreting your results

Your botanical sensitivity ratings will be broken down into either high, moderate or no reactivity ratings. These ratings will help you focus on specific reactivities, along with the relevant actions to take.

### **High Reactivity**

These are the botanical items that our testing shows you are most likely to have a sensitivity to or that fall outside of range. We would recommend the removal of these items from your daily diet for 6-8 weeks using a structured elimination diet.

### **Moderate Reactivity**

These are the botanical items that our testing shows you may have a sensitivity to. We would recommend the removal of these items from your daily diet for 4-6 weeks using a structured elimination diet.

### **No Reactivity**

These are the botanical items that our testing shows you do not have sensitivity to or are within optimal range



# Metals analysis



## What is metal toxicity?

We are all exposed to metals to differing levels on a daily basis through industrial exposure, pollution, foods, or medications. Some of us may be more sensitive than others to exposure.

## What to do if you have high levels of exposure?

For optimal health it is recommended to look at lowering your day-to-day level of exposure. Consider your environment, the foods you eat, water, cosmetics and cleaning products.

The body is constantly detoxifying things from your everyday environment such as chemicals in foods, cosmetics and cleaning products, caffeine, alcohol, medications and even your own hormones. You can help your body with detoxification processes by ensuring you; drink plenty of filtered water, eat a diet that is as wholefood as possible, avoid processed foods, reduce caffeine and/or alcohol consumption, lower nicotine usage and exercise regularly.

## Interpreting your results

Your metal sensitivity ratings will be broken down into either high, moderate or no reactivity ratings. These ratings will help you focus on specific reactivities, along with the relevant actions to take.

Ideally the metals will show no reactivity in testing. If however there are metals identified as moderate or high reactivity do not panic. Through lowering daily exposure and helping your body with detoxification processes your body can reduce its own toxicity levels.

### **High Reactivity**

These are the botanical items that our testing shows you are most likely to have a sensitivity to or that fall outside of range. We would recommend the removal of these items from your daily diet for 6-8 weeks using a structured elimination diet.

### **Moderate Reactivity**

These are the botanical items that our testing shows you may have a sensitivity to. We would recommend the removal of these items from your daily diet for 4-6 weeks using a structured elimination diet.

### **No Reactivity**

These are the botanical items that our testing shows you do not have sensitivity to or are within optimal range

## Potential sources in your environment

Heavy metals are a part of our everyday life and at low levels are detoxified by the body causing no issue. However it is beneficial to have a greater awareness of where you may come into contact with metals and therefore help you reduce your potential exposure.

**Food** – Pesticides, insecticides and herbicides used on crops can lead to contaminated food produce. Contaminated water can result in fish and seafood containing heavy metals.

**Water** – Pipework that water runs through is the most likely cause of any heavy metals in drinking water. For this reason it is always best to filter your water.

**Air** – Pollution from vehicles such as cars, trains and aeroplanes contributes to heavy metals, which can be inhaled. Industrial factories and agricultural areas, which use pesticides on crops are also ways metals get into the air we breathe.

**Cosmetics** – Lead, arsenic, mercury, aluminium, zinc and chromium can be found in many cosmetics such as lipstick, whitening toothpaste, eyeliner, nail polish, moisturiser, sunscreen, foundation, blusher, concealer and eye drops. Some metals are added as ingredients whilst others are contaminants.

**Cleaning products** – Everyday household cleaning products like polish, all purpose sprays and garden products like insecticides and pesticides contain heavy metals.





# Metal potential sources

## Aluminium

Can be found in: Cans, foils, kitchen utensils, window frames and beer kegs

## Antimony

Can be found in: Batteries, low friction metals and cable sheathing

## Argon

Can be found in: Welding and light bulbs

## Arsenic

Can be found in: Rat poisons and insecticides

## Barium

Can be found in: Paints, fireworks, some medicines and the process of making glass

## Beryllium

Can be found in: Springs, electrical contacts and spot-welding electrodes

## Bismuth

Can be found in: Usually mixed with other metals

## Boron

Can be found in: Clay pots, detergent, glass, flares and fibreglass

## Bromine

Can be found in: Flame-retardants, water purification systems and dyes

## Cadmium

Can be found in: Re-chargeable batteries

## Caesium

Can be found in: Atomic clocks and photoelectric cells

## Cerium

Can be found in: Air conditioners, computer and ovens

## Chlorine

Can be found in: Bleach, papermaking, swimming pools

## Chromium

Can be found in: Stainless steel cutlery, wood preservatives, dyes and pigments

## Cobalt

Can be found in: Cutting tools and dyes

## Copper

Can be found in: Electrical generators and motors

## Dysprosium

Can be found in: Lasers and many alloys

## Fluorine

Can be found in: Toothpaste and etched glass

## Gadolinium

Can be found in: Many alloys

## Gallium

Can be found in: Electronics, alloys and thermometers

## Germanium

Can be found in: Glass lenses, fluorescent lights, electronics and many alloys

## Gold

Can be found in: Jewellery

## Hafnium

Can be found in: Many alloys

## Holmium

Can be found in: Lasers

## Indium

Can be found in: Electronics and mirrors

## Iridium

Can be found in: Alloys and materials that need to withstand high temperatures

## Lead

Can be found in: Lead-acid storage batteries

## Lithium

Can be found in: Rechargeable non-rechargeable batteries, some medications and alloys

## Mercury

Can be found in: Batteries, fluorescent lights, felt production, thermometers and barometers

## Molybdenum

Can be found in: Many alloys

## Nickel

Can be found in: Stainless steel

## Palladium

Can be found in: Car exhaust manufacture, dental fillings and jewellery

## Platinum

Can be found in: Jewellery, decoration and dental work

## Radium

Can be found in: Some medicines and glowing paints

## Rhenium

Can be found in: Many alloys and flash photography

## Rhodium

Can be found in: Spark plugs and highly reflective materials

## Rubidium

Can be found in: Many alloys and amalgams

## Ruthenium

Can be found in: Many alloys and corrosion resistant metals

## Samarium

Can be found in: Many alloys and audio equipment

## Silicon

Can be found in: Glass, pottery, computer chips and bricks

## Silver

Can be found in: Jewellery

## Strontium

Can be found in: Firework production, tin cans (food)

## Sulphur

Can be found in: Medicines, fertilisers, fireworks and matches

## Tantalum

Can be found in: Surgical equipment and camera lenses

## Tin

Can be found in: Alloying metal

## Titanium

Can be found in: Alloying metal

## Vanadium

Can be found in: Alloying metal

## Zinc

Can be found in: Many alloys, paint, fluorescent lights and the process of making plastic

## Zirconium

Can be found in: Corrosion resistant alloys, magnets and some gem stones

# Additives analysis



## What are additives?

Additives are substances, which are added to food for a specific reason such as; to improve the look or taste of a food, to preserve a food and make it last longer on the shelf, to aid food processing and manufacturing, to stabilise a food and keep it safe to eat.

The main types of additives are colourings, flavour enhancers, sweeteners, antioxidants, emulsifiers, stabilisers and preservatives. They can be natural, man-made but nature identical or artificial.

## Interpreting your results

Your additive ratings will be broken down into either high, moderate or no reactivity ratings. These ratings will help you focus on specific reactivities, along with the relevant actions to take.

### High Reactivity

These are the additives that our testing shows you are most likely to have a sensitivity to or that fall outside of range. We would recommend the removal of these items from your daily diet for 6-8 weeks using a structured elimination diet.

### Moderate Reactivity

These are the additives that our testing shows you may have a sensitivity to. We would recommend the removal of these items from your daily diet for 4-6 weeks using a structured elimination diet.

### No Reactivity

These are the additives that our testing shows you do not have sensitivity to or are within optimal range

If you would like further information on a particular additive we have set out a variety of different sources you can use. You will find details of the full name of each additive on the next page.

**This website** gives the names of branded products, which contain a given additive. Search the database using the full name of the additive rather than the number. For example under 'search for a product' put aspartame rather than E951.

# E-numbers explainer

## Colourings

<b>E 100</b>	Curcumin	<b>E 133</b>	Brilliant blue FCF	<b>E 160 c</b>	Capsanthin, capsorubin
<b>E 101</b>	Riboflavin (vit. B2), riboflavin - 5' - phosphate	<b>E 140</b>	Chlorophylls and chlorophyllins	<b>E 160 d</b>	Lycopene
<b>E 102</b>	Tartrazine	<b>E 141</b>	Chlorophyllins (Cu complexes)	<b>E 160 e</b>	Beta - apo - 8' - carotenal, (carotenoid)
<b>E 104</b>	Quinoline yellow	<b>E 142</b>	Green S	<b>E 160 f</b>	Ethyl ester of beta - apo - 8' - carotenoic acid
<b>E 110</b>	Sunset yellow FCF, orange yellow S	<b>E 150 a</b>	Caramel	<b>E 161 b</b>	Lutein
<b>E 120</b>	Cochineal, carminic acid, carmines	<b>E 150 b</b>	Caustic sulphite caramel	<b>E 161 g</b>	Canthaxanthin
<b>E 122</b>	Carmoisine	<b>E 150 c</b>	Ammonia caramel	<b>E 162</b>	Beetroot red (betanin)
<b>E 123</b>	Amaranth	<b>E 150 d</b>	Ammonia sulphite caramel	<b>E 163</b>	Anthocyanins
<b>E 124</b>	Ponceau 4R	<b>E 151</b>	Brilliant black BN, black PN	<b>E 170</b>	Calcium carbonate
<b>E 127</b>	Erythrosine	<b>E 153</b>	Vegetable carbon	<b>E 171</b>	Titanium dioxide
<b>E 128</b>	Red 2 G	<b>E 154</b>	Brown FK	<b>E 172</b>	Iron oxides, iron hydroxides
<b>E 129</b>	Allura red AC	<b>E 155</b>	Brown HT	<b>E 173</b>	Aluminium
<b>E 131</b>	Patent blue V	<b>E 160 a</b>	Carotene (mixed carotenes, beta-carotenes)	<b>E 174</b>	Silver
<b>E 132</b>	Indigo carmine	<b>E 160 b</b>	Annatto, bixin, norbixin	<b>E 175</b>	Gold
				<b>E 180</b>	Lithol rubine BK

## Preservatives

<b>E 200</b>	Sorbic acid		(sulphur dioxide)	<b>E 252</b>	Potassium nitrate
<b>E 202</b>	Potassium sorbate, sorbic acid	<b>E 222</b>	Sodium hydrogen sulphite (sulphur dioxide)	<b>E 260</b>	Acetic acid
<b>E 203</b>	Calcium sorbate, sorbic acid	<b>E 223</b>	Sodium metabisulphite (sulphur dioxide)	<b>E 261</b>	Potassium acetate, salt of acetic acid
<b>E 210</b>	Benzoic acid	<b>E 224</b>	Potassium metabisulphite (sulphur dioxide)	<b>E 262</b>	Sodium acetate, salt of acetic acid
<b>E 211</b>	Sodium benzoate, benzoic acid	<b>E 226 c</b>	Calcium sulphite (sulphur dioxide)	<b>E 263</b>	Calcium acetate, salt of acetic acid
<b>E 212</b>	Potassium benzoate, benzoic acid	<b>E 227</b>	Calcium hydrogen sulphite (sulphur dioxide)	<b>E 270</b>	Lactic acid
<b>E 213</b>	Calcium benzoate, benzoic acid	<b>E 228</b>	Potassium hydrogen sulphite (sulphur dioxide)	<b>E 280</b>	Propionic acid
<b>E 214</b>	Ethyl-para-hydroxybenzoate (PHB-ester)	<b>E 230</b>	Biphenyl, diphenyl	<b>E 281</b>	Sodium propionate, propionic acid
<b>E 215</b>	Sodium ethyl-para-hydroxy benzoate (PHB-ester)	<b>E 231</b>	Orthophenylphenol	<b>E 282</b>	Calcium propionate, propionic acid
<b>E 216</b>	Propyl-para-hydroxybenzoate (PHB ester)	<b>E 232</b>	Sodium orthophenylphenate, orthophenylphenol	<b>E 283</b>	Potassium propionate, propionic acid
<b>E 217</b>	Sodiumpropyl-para-hydroxy benzoate (PHB-ester)	<b>E 233</b>	Thiabendazole	<b>E 284</b>	Boric acid
<b>E 218</b>	Methyl-para-hydroxybenzoate (PHB-ester)	<b>E 234</b>	Nisin	<b>E 285</b>	Sodium tetraborate, boric acid
<b>E 219</b>	Sodium methyl-para-hydroxy benzoate (PHB-ester)	<b>E 235</b>	Natamycine	<b>E 290</b>	Carbon dioxide, carbonic acid
<b>E 220</b>	Sulphur dioxide	<b>E 239</b>	Hexamethylene-tetramine	<b>E 296</b>	Malic acid
<b>E 221</b>	Sodium sulphite	<b>E 242</b>	Dimethyl dicarbonate	<b>E 297</b>	Fumaric acid
		<b>E 249</b>	Potassium nitrite		
		<b>E 250</b>	Sodium nitrite		
		<b>E 251</b>	Sodium nitrate		

## Antioxidants

<b>E 300</b> Ascorbic acid (L-) (vitamin C)	<b>E 325</b> Sodium lactate (salts from lactic acid)	<b>E 340</b> disodium p., trisodium p. Monopotassium phosphate, dipotassium p. tripotassium p.
<b>E 301</b> Sodium L-ascorbate (ascorbic acid)	<b>E 326</b> Potassium lactate (salts from lactic acid)	<b>E 341</b> Monocalcium phosphate, dicalcium p., tricalcium p
<b>E 302</b> Calcium L-ascorbate (ascorbic acid)	<b>E 327</b> Calcium lactate (salts from lactic acid)	<b>E 350</b> Sodium malate, sodium hydrogen malate
<b>E 304</b> Ascorbyl palmitate/ ascorbyl stearate	<b>E 330</b> Citric acid	<b>E 351</b> Potassium malate (salts from malic acid)
<b>E 306</b> Natural tocopherols (vitamin E)	<b>E 331</b> Monosodium citrate, disodium c., trisodium c.	<b>E 352</b> Calcium malate, calcium hydrogen m.
<b>E 307</b> Synthetic alpha-tocopherol (tocopherol)	<b>E 332</b> Monopotassium citrate, tripotassium c.	<b>E 353</b> Metatartaric acid
<b>E 308</b> Synthetic gamma-tocopherol (tocopherol)	<b>E 333</b> Monocalcium citrate, dicalcium c., tricalcium c.	<b>E 354</b> Calcium tartrate (salts from malic acid)
<b>E 309</b> Synthetic delta-tocopherol (tocopherol)	<b>E 334</b> Tartaric acid (L+), tartaric acid	<b>E 355</b> Adipic acid
<b>E 310</b> Propyl gallate (gallate)	<b>E 335</b> Monosodium tartrate, disodium tartrate	<b>E 356</b> Sodium adipate
<b>E 311</b> Octyl gallate (gallate)	<b>E 336</b> Monopotassium tartrate, dipotassium tartrate	<b>E 357</b> Potassium adipate
<b>E 312</b> Dodecyl gallate (gallate)	<b>E 337</b> Sodium potassium tartrate (salts from tartaric acid)	<b>E 363</b> Succinic acid
<b>E 315</b> Isoascorbic acid	<b>E 338</b> Orthophosphoric acid, phosphoric acid	<b>E 380</b> Triammonium citrate (salts from citric acid)
<b>E 316</b> Sodium isoascorbate	<b>E 339</b> Monosodium phosphate,	<b>E 385</b> Calcium sodium ethylene diamine tetra-acetate (EDTA)
<b>E 320</b> Butylated hydroxyanisole (BHA)		
<b>E 321</b> Butylated hydroxytoluene		
<b>E 322</b> Lecithins		

## Thickening, setting and moisturising agents

<b>E 400</b> Alginic acid, alginate	<b>E 406</b> Agar	<b>E 414</b> Gum arabic
<b>E 401</b> Sodium alginate, alginate	<b>E 407</b> Carrageenan	<b>E 415</b> Xanthan gum
<b>E 402</b> Potassium alginate, alginate	<b>E 407 a</b> Eucheuma algae, treated	<b>E 417</b> Tara meal
<b>E 403</b> Ammonium alginate, alginate	<b>E 410</b> Locust bean gum, carob gum	<b>E 418</b> Gellane
<b>E 404</b> Calcium alginate, alginate	<b>E 412</b> Gua gum	<b>E 420</b> Sorbit, sorbit syrup
<b>E 405</b> Propylene glycol alginate,	<b>E 413</b> Tragacanth	<b>E 421</b> Mannite
		<b>E 422</b> Glycerine

## Emulsifiers

<b>E 432</b> Polyoxyethylene-sorbitan-monolaurate (polysorbate 20)	<b>E 452</b> Polyphosphates	<b>E 472 e</b> Diacetyltartaric acid esters of mono and diglycerides
<b>E 433</b> Polyoxyethylene-sorbitan-monooleate (polysorbate 80)	<b>E 460</b> Cellulose, microcrystalline cellulose, cellulose powder	<b>E 472 f</b> Mixed esters of mono and diglycerides
<b>E 434</b> Polyoxyethylene-sorbitan-monopalmitate (polysorbate 40)	<b>E 461</b> Methylcellulose	<b>E 473</b> Sucrose esters of mono and diglycerides
<b>E 435</b> Polyoxyethylene-sorbitan-monostearate (polysorbate 60)	<b>E 463</b> Hydroxypropylcellulose	<b>E 474</b> Sucroglycerides
<b>E 436</b> Polyoxyethylene-sorbitan-tristearate (polysorbate 65)	<b>E 464</b> Hydroxypropylmethylcellulose	<b>E 475</b> Polyglycerol esters of fatty acids
<b>E 440</b> Pectin, amidated pectin	<b>E 465</b> Methylethylcellulose	<b>E 476</b> Polyglycerol polyricinoleate
<b>E 442</b> Ammonium phosphatides	<b>E 466</b> Carboxymethylcellulose	<b>E 477</b> Propylene glycol esters of fatty acids
<b>E 444</b> Sucrose-acetate-isobutyrate	<b>E 470 a</b> Sodium-, potassium- and calcium salts	<b>E 479</b> Thermo-oxidised soya oil
<b>E 445</b> Glycerol esters of wood resin	<b>E 470 b</b> Magnesium salts of fatty acids	<b>E 481</b> Sodium stearyl-2-lactylate
<b>E 450</b> Potassium and sodium diphosphates	<b>E 471</b> Mono- and diglycerides	<b>E 482</b> Calcium stearyl-2-lactylate
<b>E 451</b> Potassium and sodium triphosphates	<b>E 472 a</b> Acetic acid esters of mono and diglycerides	<b>E 483</b> Stearyl tartrate
	<b>E 472 b</b> Lactic acid esters of mono and diglycerides	<b>E 491</b> Sorbitan monostearate
	<b>E 472 c</b> Citric acid esters of mono and diglycerides	<b>E 492</b> Sorbitan tristearate
	<b>E 472 d</b> Tartaric acid esters of mono and diglycerides	<b>E 493</b> Sorbitan monolaurate
		<b>E 494</b> Sorbitan monooleate
		<b>E 495</b> Sorbitan monopalmitate

## Miscellaneous additives

<b>E 500</b>	Sodium carbonate, sodium hydrogen carbonate, sodium sesquicarbonate	<b>E 516</b>	Calcium sulphate	<b>E 551</b>	phosphate, acidic Silicon dioxide (silica)
<b>E 501</b>	Potassium carbonate, potassium hydrogen carbonate	<b>E 517</b>	Ammonium sulphate	<b>E 552</b>	Calcium silicate
<b>E 503</b>	Ammonium carbonate, A.-hydrogen carbonate	<b>E 520</b>	Aluminium sulphate	<b>E 553 a</b>	Magnesium silicate, magnesium trisilicate
<b>E 504</b>	Magnesium carbonate, M.-hydrogen carbonate	<b>E 521</b>	Aluminium sodium sulphate	<b>E 553 b</b>	Talc
<b>E 507</b>	Hydrochloric acid	<b>E 522</b>	Aluminium potassium sulphate	<b>E 554</b>	Aluminium sodium silicate
<b>E 508</b>	Potassium chloride	<b>E 523</b>	Aluminium ammonium sulphate	<b>E 555</b>	Aluminium potassium silicate
<b>E 509</b>	Calcium chloride	<b>E 524</b>	Sodium hydroxide	<b>E 556</b>	Aluminium calcium silicate
<b>E 511</b>	Magnesium chloride	<b>E 525</b>	Potassium hydroxide	<b>E 558</b>	Bentonite
<b>E 512</b>	Tin II Chloride	<b>E 526</b>	Calcium hydroxide	<b>E 559</b>	Aluminium silicate (kaolin)
<b>E 513</b>	Sulphuric acid	<b>E 527</b>	Ammonium hydroxide	<b>E 570</b>	Stearic acid (fatty acids)
<b>E 514</b>	Sodium sulphate, sodium hydrogen sulphate	<b>E 528</b>	Magnesium hydroxide	<b>E 574</b>	Gluconic acid
<b>E 515</b>	Potassium sulphate, potassium hydrogen sulphate	<b>E 529</b>	Calcium oxide	<b>E 575</b>	Glucono-delta-lactone
		<b>E 530</b>	Magnesium oxide	<b>E 576</b>	Sodium gluconate
		<b>E 535</b>	Sodium ferrocyanide	<b>E 577</b>	Potassium gluconate
		<b>E 536</b>	Potassium ferrocyanide	<b>E 578</b>	Calcium gluconate
		<b>E 538</b>	Calcium ferrocyanide	<b>E 579</b>	Iron-II-gluconate
		<b>E 541</b>	Sodium aluminium phosphate	<b>E 585</b>	Iron-II-lactate

## Flavour enhancers

<b>E 620</b>	Glutamic acid	<b>E 626</b>	Guanylic acid, guanylate	<b>E 635</b>	Disodium 5'-ribonucleotide
<b>E 621</b>	Monosodium glutamate, sodium glutamate	<b>E 627</b>	Disodium guanylate, guanylate	<b>E 640</b>	Glycine and its sodium salts
<b>E 622</b>	Monopotassium glutamate, potassium glutamate	<b>E 628</b>	Dipotassium guanylate, guanylate	<b>E 900</b>	Dimethylpolysiloxane
<b>E 623</b>	Calcium diglutamate, calciumglutamate	<b>E 629</b>	Calcium guanylate, guanylate	<b>E 901</b>	Bees wax, white and yellow
<b>E 624</b>	Monoammonium glutamate, ammonium glutamate	<b>E 630</b>	Inosinic acid, ionisate	<b>E 902</b>	Candelilla wax
<b>E 625</b>	Magnesium diglutamate, magnesium glutamate	<b>E 631</b>	Disodium ionisate, ionisate	<b>E 903</b>	Carnauba wax
		<b>E 632</b>	Dipotassium ionisate, ionisate	<b>E 904</b>	Shellac
		<b>E 633</b>	Dicalcium ionisate	<b>E 912</b>	Montanic acid ester
		<b>E 634</b>	Calcium 5'-ribonucleotide	<b>E 914</b>	Polyethylene wax oxidates
				<b>E 927</b>	vCarbanide
				<b>E 938</b>	Argon

## Sweeteners

<b>E 939</b>	Helium	<b>E 1105</b>	Lysozyme	<b>E 1422</b>	Acetylated di-starch adipate (modified starch)
<b>E 941</b>	Nitrogen	<b>E 1200</b>	Polydextrose	<b>E 1440</b>	Hydroxypropyl starch (modified starch)
<b>E 942</b>	Nitrous oxide	<b>E 1201</b>	Polyvinylpyrrolidone	<b>E 1442</b>	Hydroxypropyl di-starch phosphate (modified starch)
<b>E 948</b>	Oxygen	<b>E 1202</b>	Polyvinyl polypyrrolidone	<b>E 1450</b>	Starch sodium octenylsuccinate (modified starch)
<b>E 950</b>	Acesulfame K, acesulfame	<b>E 1404</b>	Oxidised starch	<b>E 1505</b>	Triethyl citrate
<b>E 951</b>	Aspartame	<b>E 1410</b>	Monostarch phosphate (modified starch)	<b>E 1518</b>	Glycerine triacetate (triacetin)
<b>E 952</b>	Cyclamate, cyclohexane sulphamide acid	<b>E 1412</b>	Di-starch phosphate (modified starch)		
<b>E 953</b>	Isomalt	<b>E 1413</b>	Phosphatised di-starch phosphate (modified starch)		
<b>E 954</b>	Saccharin	<b>E 1414</b>	Acetylated di-starch phosphate (modified starch)		
<b>E 957</b>	Thaumatococin		Acetylated starch (modified starch)		
<b>E 959</b>	Neohesperidin DC				
<b>E 965</b>	Maltitol, maltitol syrup				
<b>E 966</b>	Lactitol				
<b>E 967</b>	Xylitol				
<b>E 999</b>	Quillaia extract				

# Gut health analysis

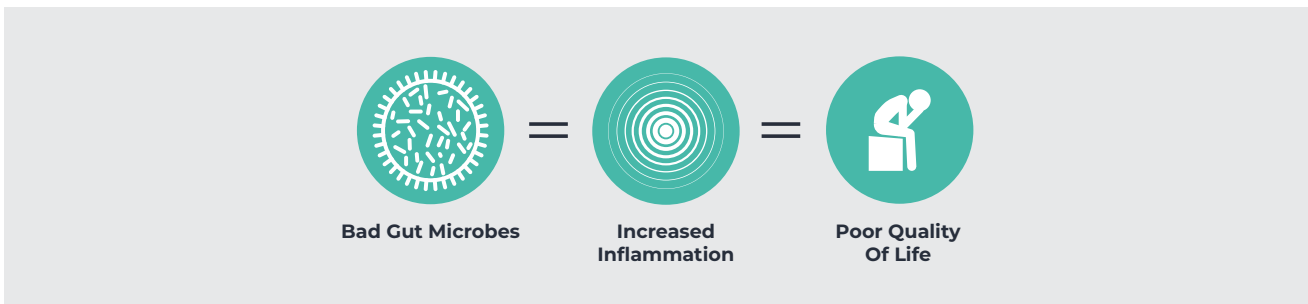
## Why is gut health important?

Each person has their own unique combination of bacteria, which is established and develops through their environment but also, and importantly, the food choices made. The presence and balance of bacteria within the gut is now known to be of great importance for our health and wellbeing. Factors such as elevated stress levels, a diet low fibre and/or high in sugar and the usage of antibiotics can greatly affect our levels and balance of bacteria.

## Intestinal flora affects your health

The microbes that live inside your intestines influence your health in beneficial and harmful ways

- Immunity**  
 Providing a physical barrier to invasive microbes, our gut flora enhances the functionality of the immune system.
- Vitamins**  
 Bacteria in the gut plays a direct role in the synthesis of vitamins B and K as well as the absorption of calcium and iron.
- Metabolism**  
 Metabolic activity of the gut flora allows our body to utilize food that would otherwise not be digested.
- Obesity**  
 In 2009, Dr. Krajmalnic-Brown discovered gut bacteria of obese patients differs significantly from normal individuals.
- Inflammation**  
 Gut flora likely plays a major role in the development of various inflammatory diseases including IBD and colitis.
- Autism**  
 New research by Dr. Krajmalnic-Brown suggests a link between autism and decreased gut bacterial diversity.



## What can be done to improve gut health?

The food choices we make have great impact on the levels of beneficial bacteria in our guts. Probiotic foods are those that contain live micro-organisms and can positively affect the levels of bacteria in the gut. Probiotic foods are those such as good quality live yogurt, kefir, sauerkraut, miso, tempeh, kimchi, goat's cheese, olives, good quality dark chocolate and spirulina.

Bacteria need to feed on insoluble fibre foods, known as prebiotic foods, from our diet in order to flourish. Prebiotic foods include onion, garlic, leeks, cabbage, asparagus, chicory, artichoke, banana, apple, wheat bran, flaxseed and root vegetables.

# Digestion analysis

## Digestive health

In order to benefit from the nutrients and energy in our food we need to break it down and absorb it. The digestive process enables this to happen by releasing enzymes in the mouth, stomach and small intestine. The enzymes we release are able to break down different parts of our food; amylase breaks down carbohydrate, lipase breaks down fat and there are a number of different proteases, which break down proteins.



If levels of a certain digestive enzyme decreases digestion of that particular part of your food becomes less effective. For example a decrease in lipase may mean that fats are not being broken down as effectively and this could lead to malabsorption as well as possible symptoms, such as bloating or flatulence.

## Digestive health and the daily diet

Certain foods naturally contain enzymes, which can aid digestion such as pineapple, papaya, kiwi, bananas, mango, kefir, good quality natural yogurt, sauerkraut, kimchi, miso, soy sauce, tempeh and avocado. Adding such items into the diet can help the digestive process. Natural digestive enzyme supplements, based on pineapple and papaya are also available. Please note it is always recommended that any supplementation is taken under the advice and monitoring of a health professional.

## Interpreting your results

Your reactivity ratings for digestion will be broken down into within or outside of optimal range. These ratings will help you focus on specific reactivities, along with the relevant actions to take.



### Outside range

These digestive enzyme levels fall outside the optimal range. We suggest taking steps to raise them to the optimal level.



### Within range

These digestive enzymes fall within the optimal range

# Anti-aging analysis

## Understanding the aging process

The aging process affects the skin in various ways and leads to visible changes in its appearance, texture, and function. These changes are influenced by genetics and natural aging as well as lifestyle and environmental exposures.

As we age we produce less collagen and elastin, these are proteins that provide support and elasticity to the skin. We also have decreased levels of hyaluronic acid, which keeps the skin hydrated. The combination of reduced collagen, elastin, and hyaluronic acid, can lead to a loss of skin firmness and elasticity, the development of fine lines and wrinkles, and dry, less youthful looking skin.



Adopting a comprehensive skincare routine can minimise the impact of the aging on the skin. This may include using sunscreen to protect the skin from UV damage, moisturising to maintain hydration and incorporating products with antioxidants and anti-aging ingredients. Healthy lifestyle choices, such as a balanced diet, regular exercise and avoiding smoking, can greatly contribute to maintaining skin health. Working with a dermatologist can provide personalised advice and treatment options.

## Interpreting your results

Your reactivity ratings for anti-aging will be broken down into either outside range or within optimal range). These ratings will help you focus on specific reactivities, along with the relevant actions to take.

 **Outside range**

These anti-aging item levels fall outside the optimal range. We suggest taking steps to raise them to the optimal level.

 **Normal range**

These anti-aging item levels fall within the optimal range



# Stress and inflammation analysis

## Elevated stress levels

Stress is a physiological response that happens in the body when faced with challenges, demands, or changes that require adaptation or adjustment. It is a natural and automatic reaction that prepares the body to cope with various situations. Stress can be triggered by both external factors, such as work demands, relationships, or environmental changes, and internal factors, such as thoughts and emotions.

Whilst acute stress is short term, manageable and can be motivating for some, chronic stress can lead to chronically elevated cortisol levels, internal inflammation, and have negative effects on health. Stress and inflammation are closely related through complex biological pathways. Chronic stress can dysregulate the normal inflammatory response leading to prolonged and harmful inflammation.



## What is cortisol?

Cortisol is a steroid hormone produced by the adrenal glands, which are located on top of each kidney. Cortisol is often referred to as the stress hormone as it is released in response to acute stress as part of a normal and adaptive response. It also plays a crucial role in various other physiological processes within the body such as blood sugar regulation, metabolism, blood pressure regulation, and immune system function.

Chronic or prolonged elevated cortisol levels due to chronic stress or medical conditions can have negative effects on health such as a weakened immune system, weight gain, cardiovascular issues, digestive issues and it can impact mental health. Managing stress through healthy lifestyle habits, relaxation techniques, and seeking support when needed is crucial for maintaining balanced cortisol levels and overall well-being.

## Interpreting your results

Your reactivity ratings for stress and inflammation will be broken down into either outside range or within optimal range). These ratings will help you focus on specific reactivities, along with the relevant actions to take.

 **Outside range**

These stress & inflammation item levels fall outside the optimal range. We suggest taking steps to raise them to the optimal level.

 **Normal range**

These stress & inflammation item levels fall within the optimal range

## Quick stress management tips for a healthier you

Your reactivity ratings for stress and inflammation will be broken down into either outside range or within optimal range). These ratings will help you focus on specific reactivities, along with the relevant actions to take.

### 1. Exercise regularly

Engage in activities like walking, jogging, yoga, or cycling to release stress-reducing endorphins.

### 2. Practice mindfulness

Try techniques like meditation, deep breathing, or guided imagery to stay present and reduce stress.

### 3. Maintain a healthy diet

Eat a balanced diet with fruits, veggies, lean proteins, and whole grains while minimizing caffeine and sugary foods.

### 4. Prioritize quality sleep

Aim for 7-9 hours of consistent, restful sleep to manage stress effectively.

### 5. Use healthy coping methods

Talk to a friend, write in a journal, enjoy a hobby, or spend time in nature to cope with stress positively.



# Sleep hormone analysis

## Low melatonin levels

A low level of melatonin is associated with sleep issues like finding it difficult to fall asleep, frequent waking or the inability to stay asleep, and waking early and not being able to fall back to sleep. Low melatonin levels also play a role in mood and stress disorders.

There are many factors that can affect sleep including:

- Stress, anxiety, and depression
- Certain medications
- Physical discomfort  
(chronic pain or restless leg syndrome)
- Lack of sleep hygiene - too much light or noise or no regular bedtime
- Blue light from screens before bed
- Lack of daylight exposure
- Too much caffeine or sugar in the diet
- Aging
- Alcohol intake



## What is melatonin?

Melatonin is a hormone naturally produced by the pineal gland, a small pea-sized gland located in the brain. It plays a vital role in regulating the sleep-wake cycle, also known as the circadian rhythm. Melatonin levels in the body increase in the evening and remain elevated throughout the night, promoting sleep and relaxation, and decrease in the morning, helping the body to awaken and maintain wakefulness during the day.

The natural production of melatonin is influenced by exposure to light with darkness stimulating the release of melatonin, signaling the body to prepare for sleep. Exposure to light, especially blue light emitted by electronic devices and certain light sources, can suppress melatonin production and interfere with the sleep-wake cycle.

In addition to its role in sleep regulation, melatonin also acts as an antioxidant, helping to protect cells from oxidative stress and damage, and is involved in the regulation of immune function, blood pressure, body temperature, and hormone production.

## Interpreting your results

Your reactivity ratings for sleep hormone Melatonin will be broken down into either outside range or within optimal range). This rating will help you focus on specific reactivities, along with the relevant actions to take.

 **Outside range**

Your melatonin levels fall outside the optimal range. We suggest taking steps to raise them to the optimal level.

 **Normal range**

Your melatonin levels fall within the optimal range

## Did you know?

The optimal room temperature for sleep typically ranges between 60-67°F (15-19°C). This temperature range is considered comfortable for most people as it helps regulate your body's internal temperature and promotes better sleep. However, individual preferences can vary, so it's essential to adjust the temperature to what feels most comfortable for you. Experiment within this range to find the temperature that helps you sleep most soundly.



# Skin health analysis



## What is skin sensitivity?

Items, such as those containing fragrances, can cause the body to react, which can lead to the production of symptoms such as headaches and fatigue. If you suspect you have an allergy please see your physician. It is important to note that this is not an allergy test. Any known cosmetic allergies you know you have may or may not come up in this test



## Interpreting your results

Your skin sensitivity ratings will be broken down into either high, moderate or no reactivity ratings. These ratings will help you focus on specific reactivities, along with the relevant actions to take.

**High Reactivity**

These are the skin sensitivity items that our testing shows you are most likely to have a sensitivity to or that fall outside of range. We would recommend the removal of these items from your daily diet for 6-8 weeks using a structured elimination diet.

**Moderate Reactivity**

These are the skin sensitivity items that our testing shows you may have a sensitivity to. We would recommend the removal of these items from your daily diet for 4-6 weeks using a structured elimination diet.

**No Reactivity**

These are the skin sensitivity items that our testing shows you do not have sensitivity to or are within optimal range

# Nutrition analysis

## Low nutrition levels

There are recommended daily amounts of each vitamin and mineral that should be consumed on a daily basis and the essential amino acids need to be consumed through the daily diet. Vitamin, mineral and amino acid requirements do vary from person to person depending upon life stage, activity level, stress level, health conditions and medications. Low vitamin, mineral and amino acids levels occur when the dietary intake is lower than required or when the body is struggling to effectively absorb nutrients from the diet.



## Why is a good daily diet important?

Good daily nutrition plays a central role in maintaining overall health and wellbeing. It is important for:

- Providing essential nutrients
- Supporting growth and development
- Aiding immune system function
- Cardiovascular health
- Support brain function
- Regulates blood sugar
- Aids digestive health
- Supports bone and joint health
- Reduces the risk of chronic disease
- Helps maintain body weight

## Interpreting your results

Your nutrition ratings will be broken down into either high, moderate or no reactivity ratings. These ratings will help you focus on specific reactivities, along with the relevant actions to take.



**Outside range**

These nutrition item levels fall outside the optimal range. We suggest taking steps to raise them to the optimal level.



**Normal range**

These nutrition item levels fall within the optimal range

## What does a balanced meal look like?

The BANT healthy eating plate is a great example of a guide to help you to create balanced meals providing a breadth of nutrients, non-starchy fruits and vegetables, wholegrains or starches and protein, and healthy fats.

# 7 a day

(5 veg and 2 fruit)





# Got a question?

Please get in touch with the Biometrix Labs team on:



[info@biometrixlabs.co.za](mailto:info@biometrixlabs.co.za)

## Disclaimer

Biometrix Labs DISCLAIMS LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES and assumes no responsibility or liability for any loss or damage suffered by any person as a result of following or misusing any of the information or content from this report on or from our website. Biometrix Labs assumes or undertakes NO LIABILITY for any loss or damage suffered as a result of the use or misuse of any information or content or any reliance thereon.

USE AT YOUR OWN RISK: This report is for informational purposes only. Consult a physician before undertaking any nutritional plan or diet program. It is your responsibility to evaluate your own medical and physical condition, or that of your clients, and to independently determine whether to perform, use or adapt any of the information or content on this report or on our website.



## Think before you print.

Please consider the environment before printing. We can all do our bit to help the planet.