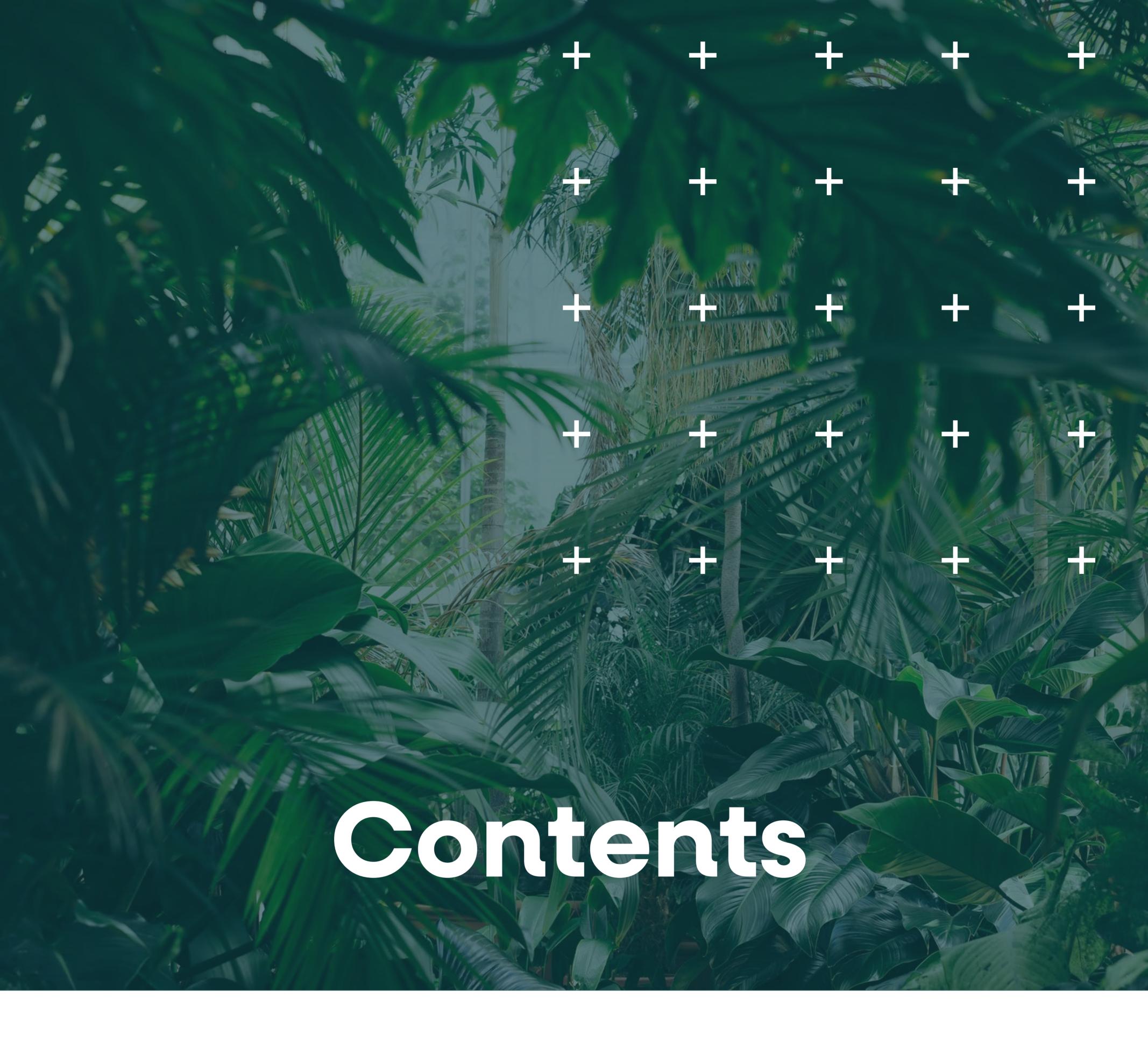


The Ultimate Guide to Dietary Supplements





Introduction Vitamin C Superfood Blend Vitamin A Vitamin D Goji Berry Extract Blueberry Extract Vitamin B1 Vitamin E Green Tea Extract Vitamin B2 Vitamin K1 Pumpkin Seed Extract Resveratrol Vitamin B3 Vitamin K2 Glucosamine and Chondroitin Vitamin B5 Calcium Omega-3 Vitamin B6 Magnesium Vitamin B7 Zinc Vitamin B9 Selenium Vitamin B12 Manganese

There's no doubt about it, a healthy balanced diet, whether it's vegan, vegetarian or a diet that includes meat, is one that should give you all the essential vitamins and minerals that you need to keep you healthy.

If only it was that simple right?

For every one of us that has the perfectly balanced diet, there's bound to be at least ten of us who don't.... Let's face it, we all lead busy lives and often food is grabbed on the go or we might buy pre prepared meals from the supermarket because it's a quick, easy and often super tasty option at the end of a long day.

So, should we all be taking dietary supplements?

There are some supplements that The Department of Health (UK) do recommend for certain groups of people. As our nutritional needs change throughout our life, different supplements can be recommended and useful during different lifestages depending on age, medical condition and fitness levels.

To make it easier for you to make an informed choice, our guide to dietary supplements takes a look at the most common vitamins and minerals that are found in over the counter dietary supplements.



Vitamin A has a multitude of benefits including keeping your skin healthy, it helps boost and maintain your immune system and is also responsible for allowing your eyes to be able to see in low light conditions.

Luckily Vitamin A is readily available in a healthy balanced diet and can be easily found in:

- Dairy foods such as milk, cheese and yoghurts
- Eggs
- Oily fish
- Liver

Even better news is that food containing beta carotene can up your Vitamin A levels!

Beta Carotene is converted into Vitamin A and can be found in brightly coloured fruit and vegetables such as:

- Carrots (not such an old wives tale after all about carrots helping you to see in the dark!)
- Leafy green vegetables like spinach and broccoli
- Sweet Peppers
- Sweet Potatoes
- Mangoes
- Apricots

The Department of Health (UK) recommends that all children between the ages of six months and five years take a supplement containing vitamins A, C and D. ⁽¹⁾ It also cautions that although liver is an excellent source of Vitamin A it, or any liver products should not be eaten more than once a week. Women who are pregnant or who are trying to conceive are advised against taking Vitamin A supplements or eating liver or liver products ⁽²⁾









Thiamine is found in lots of our everyday foods and helps keep our nervous systems healthy. It also works in harmony with other B vitamins to break down and release energy from food.

Thiamine can be found in:

- Fresh and dried fruits
- Vegetables
- Whole Grain bread
- Eggs
- Liver

Thiamine is also frequently used to fortify some foods such as breakfast cereal and bread.



Vitamin

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(Riboflavin)

Again, Riboflavin is an easy to source vitamin in a healthy balanced diet. Like Thiamine, it also helps keep our nervous systems healthy as well as releasing energy from food. It's also utilised in keeping our eyes and skin healthy.

Riboflavin is found in:

- Eggs
- Milk
- Rice
- Fortified foods

Milk Eggs

- Meat
- Fish
- Wheat Flour (B1 Vitamin B2 Vitamin B3

Suggested Product **MultiVit**



Vitamin

Niacin can be found in:

(Niacin)

There are two 'types' of Niacin (nicotinic acid and nicotinamide) and both of these are readily found in our food. Vitamin B3 helps maintain our nervous system and skin, plus it acts with the other B vitamins to help release energy from our food.

(Pantothenic Acid)

Pantothenic acid is again really easy to source in our diets and is found in a variety of foods. It works alongside the other B vitamins to help release energy from food.

You can find Pantothenic Acid in:

- Fortified foods
- Eggs
- Broccoli
- Tomatoes
- Chicken
- Beef
- Kidney

Vitamin

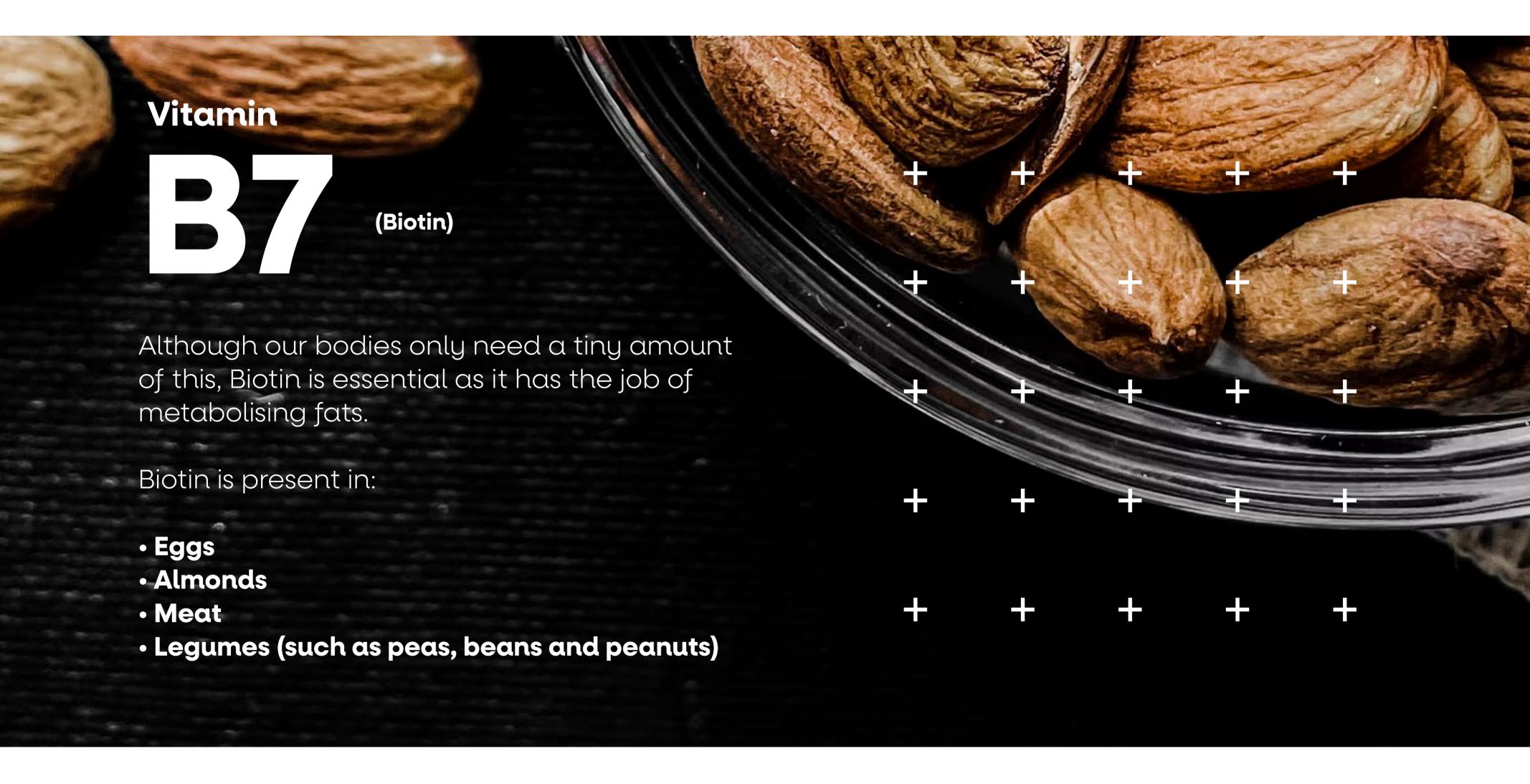
B 6

(Pyridoxine)

Vitamin B6 plays a vital role in our blood supply by helping to form haemoglobin. Haemoglobin is the part of our red blood cells that is responsible for carrying oxygen around the body. It also helps the body store energy from foods that contain carbohydrates and protein.

Luckily, seeing as how it does such an important task, there are lots of foods that are rich in Vitamin B6!

- Milk
- Eggs
- Bread
- Fish
- Chicken and Turkey
- Pork
- Brown Rice
- Potatoes
- Vegetables
- Peanuts
- Oatmeal
- Soya BeansFortified Foods
- Oats







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(Cobalamin)

Everyone benefits from and needs Vitamin B12 as it's essential for the formation of red blood cells. It supports the brain and nervous system plus it supports the immune system and energy levels. Vitamin B12 also has an important job in processing Folic acid.

Good sources of Vitamin B12 are:

- Meat
- Fish
- Milk
- Cheese
- Eggs
- Fortified foods

Unfortunately, for vegans and vegetarians, Vitamin B12 isn't as readily available to them in their diet as it is to meat eaters and so people who follow a non-meat and non dairy diet should supplement their Vitamin B12 intake to avoid Vitamin B12 deficiency anaemia. (4)

Vitamin

(Folic Acid)

Almost all women will have heard of Folic acid and of its importance. Folic acid is hugely important for a developing baby in the womb and can significantly reduce the risk of spina bifida. Although folic acid is present in foods such as leafy green vegetables and brown rice as well as being added to many fortified foods,

The Department of Health (UK) strongly recommends that women who are trying to conceive should take a folic acid supplement of 400mcg per day and continue this through the first trimester of her pregnancy. (3)













Probably one of the best known of the vitamins, we bet you can't think about Vitamin C without thinking of a deliciously juicy orange?

Vitamin C is vital in the production of collagen and without it, this collagen can't be replaced. In turn, this can lead to various tissues in the body breaking down; the first symptoms of scurvy! We've all heard the infamous stories of sailors suffering from scurvy because of a lack of fresh fruit and vegetables during long sea voyages, but, did you know that scurvy isn't a thing of the past? Our bodies cannot produce Vitamin C, so even now in the 21st century, anyone who doesn't have a balanced diet can be susceptible to scurvy.

Vitamin C is found in abundance in the following fruits and vegetables:

- Oranges
- Lemons
- Limes
- Grapefruit
- Strawberries
- Broccoli
- Peppers

The Department of Health (UK) recommends that all children between the ages of six months and five years take a supplement containing vitamins A, C and D. (1)



Suggested Product **VitC**





Vitamin D is vital to the process of calcium and phosphate absorption, both of which are essential to the health and strength of our bones, teeth and muscle. A lack or deficiency in Vitamin D can cause rickets in young children whose bones are still developing or a condition in adults called osteomalacia. Again, Vitamin D is one of the essential vitamins we need but, it's not one that we can get any great amount of from our diets!

Some dietary sources of Vitamin D are:

- Oily Fish
- Egg Yolks
- Some red meats
- Liver
- Fortified Foods

So, how else do we get Vitamin D?

In simplistic terms, our bodies create Vitamin D when our skin is exposed to the sun. Here in the UK we should be able to create enough Vitamin D from exposing our skin to the sun (without sunscreen) for short periods between late spring and late summer, but, in the winter we just don't get enough sunshine to be able to create Vitamin D. This is such a concern that The Department of Health (UK) recommend that Vitamin D supplements are taken by the following groups; (5)

- Breastfed babies from birth up until one year old should have a supplement of 8.5-10mcg (By law all formula milk is fortified with Vitamin D) (6)
- Children aged between one and 14 should have a supplement of 10 mcg daily
- · People who are housebound, live in a care home or spend little regular time out of doors should take 10mcg per day





VitD3

+



Much loved by the beauty industry, Vitamin E is lauded for its antioxidant properties. Vitamin E is essential to maintaining healthy skin, eyes and helps the immune system stay healthy. Unless following an ultra low fat diet we normally get enough Vitamin E through the foods we eat. Our bodies are also clever enough to be able to store 'reserves' of Vitamin E, so we don't need to consume it daily.

Some excellent sources of Vitamin E are:

- Vegetable and plant oils
- Wheat germ
- Nuts
- Seeds
- Avocado





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Vitamin K2 as a supplement is relatively new to the market and only just beginning to make a name for itself here. It's well known in Japan and is found in a dish made from fermented soybeans called natto. You're probably aware that the heart disease and bone problems are really low in Japan and now we think that's because of the heightened K2 in their diet. When put together with Calcium, Vitamin K2 actually aids absorption of the calcium meaning that it doesn't clog the arteries. If we then add Vitamin D3 to that mix you now have what we call the triangle effect! These three components are a perfect combination for your joints to ensure everything gets absorbed and allows the calcium to be utilised by the bones effectively.

Suggested Product

Bone Care



Vitamin

Vitamin K is important for bone health and has a vital role in helping our blood clot effectively and allowing wounds to heal. Newborn babies have very low levels of Vitamin K and in the UK all new mums have the option of their baby having a Vitamin K injection to prevent a condition called Vitamin K Deficiency Bleeding (VKBD).

(7) Vitamin K is easily gained from a well balanced and varied diet and any excess is stored in the liver, meaning that we don't need to eat foods containing it on a daily basis.

Vitamin K can be found in:

- Leafy green vegetables
- Vegetable oils
- Green vegetables

Suggested Product

MultiVit





Like most of us you were probably told to drink up your milk as "it was good for your bones". Well, it's true, milk does contain calcium and calcium is a major component in building strong, healthy teeth and bones. Calcium isn't just vital to our bone building structure though, it also plays a significant role in the regulation of the heart muscles making sure that the heart is able to contract and pump blood around the body. Alongside Vitamin K, Calcium also ensures that our blood manages to clot correctly. Calcium is abundantly available in a healthy, well balanced diet, but a lack of calcium in developing babies can cause rickets, or in adults lead to osteoporosis.

Good sources of calcium are:

- Milk
- Cheese
- Yoghurt
- Tofu
- Soya beans
- Fortified soya milk or soya drinks
- Leafy green vegetables
- Nuts
- Small fish that you would eat whole such as whitebait, sardines or pilchards

Suggested Product

MultiVit



Suggested Product

Bone Care





Magnesium

We probably don't give Magnesium too much thought, in fact you probably only vaguely remember it even being on the periodic table? Surprisingly we need quite a bit of it to keep our parathyroid glands in good, healthy working order and it's recommended that men have 300mg per day and women 270mg.

Luckily magnesium is readily found in a well balanced diet and our daily recommended intake can be found in:

- Leafy green vegetables
- Meat
- Dairy foods
- Fish
- Brown rice
- Whole Grain breads and cereals





Suggested Product

Bone Care





Zinc

Zinc has several functions including aiding wound healing, it helps our body create new cells and enzymes plus it helps us to process fat, protein and carbohydrates effectively.

You should be able to get all of your daily recommended Zinc intake from your diet and it can be gained from:

- Meat
- Shellfish
- Cheese
- Butter
- Bread
- Cereals

Manganese

Manganese ,amongst other things, plays a part in forming connective tissue and bone. We don't need much Manganese and we can get plenty from a healthy well-balanced diet (8). If you like a nice cup of tea, then you're probably getting most of the manganese you need just from that!

If tea isn't your thing, then it's also found in:

- Cereals
- Green vegetables
- Nuts
- Bread

Selenium

Selenium aids the immune system, is important for cognitive function, helps repair and prevent cell damage as well as being important to the health of the male and female reproductive systems.

Selenium is easy to source in either a meat free or meat eating diet and some good sources are:

- Fish
- Meat
- Eggs
- Brazil Nuts







Goji Berry Extract

Although Goji berries might not be familiar to you, they've been used in Chinese medicine for over 6,000 years. (10) These tiny wrinkled berries host antioxidant properties and contain Vitamin C, Vitamin B2, Vitamin A, Iron and Selenium.

Blueberry Extract

These little berries are bursting with antioxidants! Full of vitamin C they're also a good source of Vitamin K, fibre and Manganese. (11)

Green Tea Extract

Who has failed to notice the boom in green tea sales in the UK alone over the past couple of decades? Like Goji berries, green tea has long been used in Chinese medicine and is famed for its antioxidant properties. Green tea still contains naturally occurring caffeine, so it's not a caffeine free alternative to a regular cuppa, but it's also a source of B vitamins, Folic Acid, Manganese, Potassium and Magnesium. (12)

Pumpkin Seed Extract

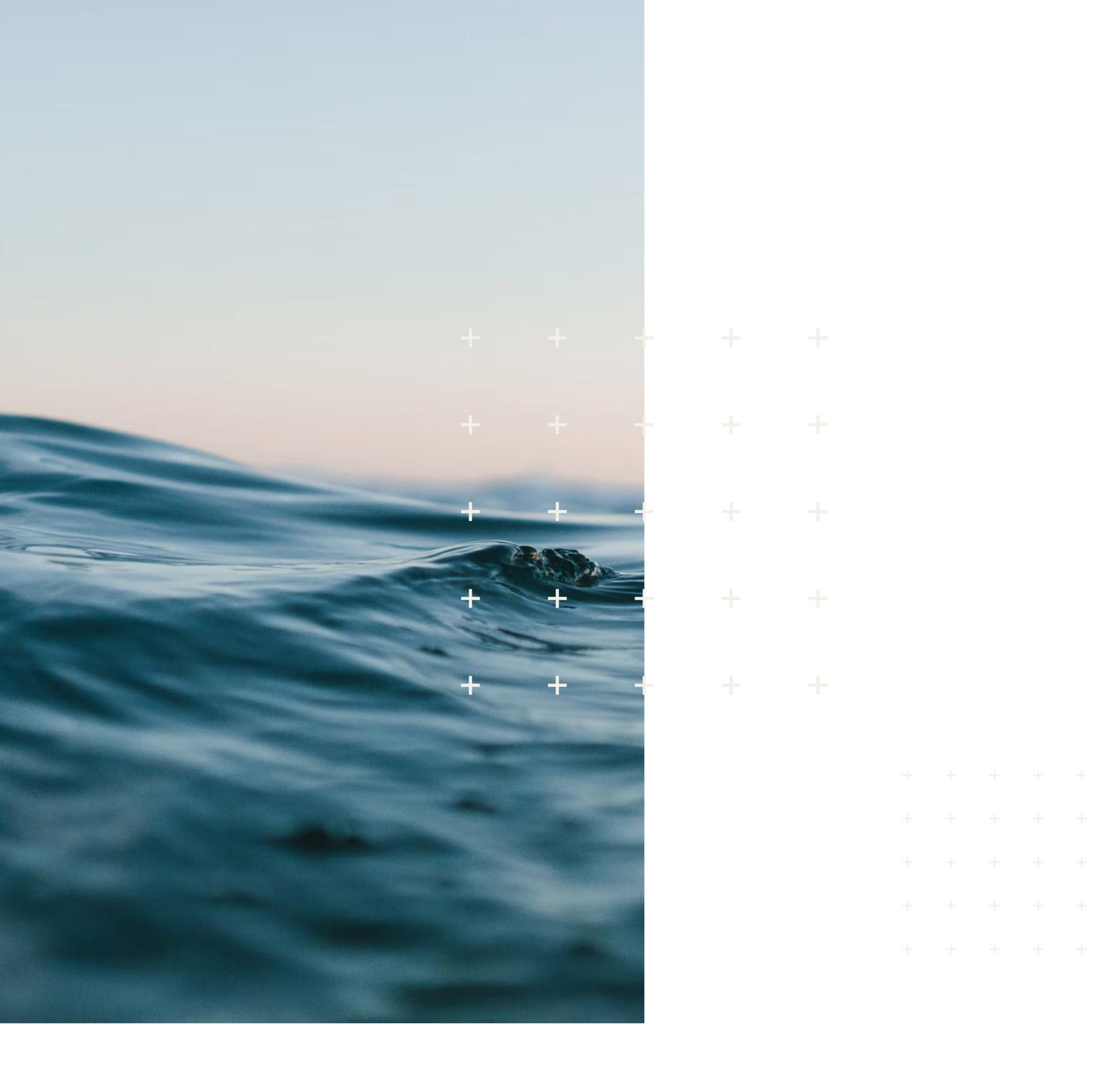
Deseeding a pumpkin is never a fun job, but these little seeds are a brilliant source of Zinc and Vitamin E! $^{(13)}$

Resveratrol

Otherwise known as grape extract, it is found in the skin of red grapes. Widely claimed as an antioxidant, it is thought to have good anti-inflammatory properties. (14)







Glucosamine and Chondroitin

Both of these are excellent joint-care supplements, helping to keep ligaments, tendons and cartilage in tip-top condition. In nature these are both only really found in crustaceans, such as prawns and other shellfish.

Unfortunately, Chondroitin is extracted from shark fins, which many will regard as an unethical source. There is a plant-based alternative to Chondroitin called Phytodroitin™.

Phytodroitin™ is made from plant matter and algae to replicate the mucopolysaccharide structure of Chondroitin. Mucopolysaccharides are long big structures that help give bounce to your joints. These large molecules sit within the synovial fluid that keep joints lubricated so they can move more freely. Phytodroitin™ is therefore a plant-based product that does exactly the same job as Chondroitin without harming any shark.





Omega-3

Omega-3 is a versatile supplement with a range of health benefits. Probably best known for its heart health benefits, Omega-3 also improves cognitive function and its usefulness in joint care shouldn't be overlooked. Omega-3 helps to boost the synovial fluid that keeps joints lubricated, but studies also show that it's also great for keeping inflammation of the joints at bay. (15)

The best dietary source of Omega-3 is cold water oily fish such as;

- Herring
- Mackerel
- Salmon
- Sardines
- Pilchards
- Fresh Tuna (not canned)

Omega-3 can also be found in flaxseed and chia seeds. It's recommended that we eat at least one portion of oily fish per week to maintain our Omega 3 levels (16) However, if you don't eat fish there is an alternative to fish oil and it's completely plant-based. Surprisingly, fish don't naturally contain Omega-3!

Fish get all their Omega-3 from their diet of algae and seaweed. By recreating the environment that the sea algae flourishes in, algae is able to be 'grown' in a closed, sterile container. The Omega-3 that's then extracted from the algae is identical in its form to that from fish and is completely free from any worry about pollutants.

Suggested Product

Omega-3



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