

DEFUSE™

PRODUCT INGREDIENT BENEFITS

Anti Inflammatory | Antioxidants | Anti Aging | Reduce Pain | Muscle Endurance and Recovery

Boswellin® (Boswellia Serrata Extract)

The use of this herb has been known and used for thousands of years. Also known as frankincense, boswellia was so valuable in olden times, which made it one of the most choice gifts brought by the Wise Men to Baby Jesus. It has properties that could provide substantial benefit for many of today's chronic illnesses.

Recently Boswellia has become very popular for its benefits in fighting inflammation, which involves many processes that the body uses to help heal itself. Many times it is most evident when we sprain an ankle and develop swelling and tenderness. But inflammation that goes on for long periods of time, day after day can lead to chronic problems such as arthritis. Boswellia appears to have the ability to counteract inflammation. This anti-inflammatory effect could correlate to benefit many chronic illnesses like arthritis, asthma and inflammatory bowel disease.

The MTN OPS DEFUSE™ uses the registered Boswellin, which is the best quality with research to back it. <http://boswellin.com/Pharmacologic.html>

Curcumin C3 Reduct® (Curcumin Extract)

In the U.S., turmeric (curcumin) is best known as a spice. It's one of the main components of curry powder. In other parts of asia, turmeric is used to treat many health conditions. It is believed to have anti-inflammatory, antioxidant, and perhaps even anticancer properties.

Curcumin, a substance in turmeric, may help to reduce inflammation. Many studies suggest that it might ease symptoms of arthritis and osteoarthritis, such as pain and inflammation.

<http://www.c3reduct.com/>

AstaReal® (Astaxanthin 2%)

Astaxanthin is the most powerful antioxidant known to science until this moment.

Free radicals are unstable, highly reactive molecules that have unpaired electrons. They can be generated naturally in our bodies by different metabolic activities, enzymatic reactions and exercise. These radicals are usually produced in a scale that the body's natural antioxidants can handle.

In our day to day lives, we are exposed to free radicals produced by various other sources in the environment around us; for example – pollution, smoking, UV radiation from the sun and the consumption of alcohol. This constant exposure to such a toxic environment creates a significant imbalance between the body's natural antioxidant capacity and its ability to neutralize free radicals. The result is a damaging condition called "oxidative stress".

One of the primary causes of human aging is oxidative stress caused by free radicals. They have harmful effects on lipids, proteins, DNA and can cause damage to the human body.

Put simply, antioxidants are molecules that work against the oxidation of the cells. They are stable enough to offer electrons to free radicals and thus help neutralize them. They provide protection against the damaging effects of free radicals.

According to the study Nishida et al., (2007), astaxanthin is the most powerful antioxidant known to science until this moment. Its power comes from its unique structure that allows it to quench free radicals in the inner and outer layer of the cell membrane unlike other antioxidants.

Astaxanthin is

500 times stronger than Vitamin E

560 times stronger than Green tea catechins

800 times stronger than CoQ 10

3000 times stronger than Resveratrol

6000 times stronger than Vitamin C

Muscle Endurance and Recovery

Natural astaxanthin improves muscle endurance through its ability to support muscle function and improve aerobic power. Natural astaxanthin acts as a powerful antioxidant in the body. In studies, natural astaxanthin has also been found to reduce lactic acid build up and decrease fatigue.

***Benefits of Natural Astaxanthin for Muscle Performance:**

- Boost muscle endurance and recovery
- Lowers lactic acid and fatigue
- Reduces muscle damage and inflammation (that may occur from over exertion during strenuous exercise)
- Improves blood flow and the quality of red blood cells
- Enhances fat metabolism by improving mitochondria function

Eye Health

Various clinical studies have shown that astaxanthin supplementation can help improve the symptoms linked to excessive computer and digital device use such as eye fatigue, eye irritation and blurred vision. Clinical studies have also shown that astaxanthin supplementation improves eye fatigue by quenching cellular inflammation that emerges during persistent visual stress and tension of the ciliary muscle.

***Clinical Studies Have Shown That Natural Astaxanthin is Beneficial in Enhancing Eye Health & Vision by:**

- Improving eye fatigue, eye irritation & blurred vision linked to computer and digital device use

- Improving capillary blood flow
- Reducing inflammation of the ciliary muscle (that may occur with excessive computer and digital device use)

Skin Health / Anti-Aging

The skin is the largest organ of the body and is extremely complex; consisting of multiple layers each of which have unique and important functions. Natural astaxanthin is the most powerful antioxidant known to science, and has the ability to optimize the health and radiance of the skin by providing protection and support to all layers.

***Clinical Benefits of Natural Astaxanthin:**

- Revitalizes photoaged skin by quenching oxidative stress in all skin layers
- Reduces the size of wrinkles and improves skin microtexture
- Improves elasticity in the skin by strengthening the collagen layer

Immune Health

Like other parts of the body, the immune system functions better when protected. Natural astaxanthin has a strong ability to both balance and strengthen the immune system, therefore improving its ability to defend the body whilst also helping to suppress the overactive immune responses.

***Benefits of Natural Astaxanthin:**

- Faster immune response
- Strengthens and balances the immune system
- Enhances antibody production
- Protects immune cells against oxidative stress

What is the source?

Astaxanthin comes from a Freshwater Microalgae called *Haematococcus Pluvialis*.

<http://astarealusa.com/health-benefits/>

Pterostilbene (pronounced “taro stilbene”)

Pterostilbene is an antioxidant found mostly in blueberries. Pterostilbene is far more reaching than resveratrol. Both resveratrol and pterostilbene belong to *phytoalexins* the

same family of compounds “stilbenes” and both contain plant chemicals which fight infections. Recent studies have demonstrated pterostilbene to out-perform resveratrol in a few areas – notably improving mental functions, controlling blood sugar levels and improving heart health.

Main benefits include anti-inflammatory response, anti high cholesterol and high triglycerides, fights cognitive decline and normalizes blood sugar and insulin levels.

Stress Adaption Blend

Reishi Extract

Reishi has analgesic, antifungal, antiviral, antiparasitic, cardiovascular and antidiabetic effects.

The primary active ingredients in reishi are 2 phytochemicals known as beta-glucan polysaccharides and triterpenes. The phytochemicals in reishi are reported to prevent free radical-induced damage to the body, reduce allergy symptoms, treat and prevent hypertension and stimulate the production of immune-supporting antibodies. Reishi also is touted as an adaptogen, which are substances thought to reduce the effects of mental, physical and emotional stress.

Maca Extract

Maca powder can boost energy levels and even enhance athletic performance. A 2010 study published in "Bioresource Technology" found that maca has the ability to lower blood pressure, since its phenolic compounds inhibited the enzyme relevant to hypertension during cultured experiments. This suggests maca may possibly be useful in the prevention and treatment of high blood pressure.

Panax Ginseng Extract

Ginseng has a positive effects on mental function could include better cognition and memory, improved speed of recall, and improved accuracy during tasks requiring mental attention. Some participants in studies showed improved reaction times and better abstract thinking.

Bioavailability Booster

Black Pepper Extract

The most established effect of black pepper extract is its effect on absorption of nutrients from the intestine. This effect is known as "bioenhancement." According to an article published in the "Journal of Ayurveda and Integrative Medicine" in 2010, piperine (bbe) has been shown to increase the absorption of vitamin C, selenium, beta-carotene,

vitamin A, vitamin B-6 and coenzyme Q. The article goes on to suggest that piperine may be useful for people who suffer from conditions that cause malabsorption of nutrients and people suffering from malnutrition.