

# **TEAPOLY**

## **BODY'S RUST REMOVER**

### **CAUSES OF FREE RADICALS IN HUMAN BODY**

Due to a highly compromised environment, non-ideal food, etc., our natural free radical defense systems have been severely weakened, drained, and overrun. Far less metabolic antioxidant enzymes that are needed for optimum health also get affected. Free radicals are highly reactive and have only one electron instead of the usual pair. In a battle for survival, they search for healthy cells in the body and steal the extra electron they need. These little thieves end up permanently damaging healthy cells. Just as a car rusts from oxidation, the body `rusts' from the oxidizing effects of free radicals." Harmful free radicals are toxic molecules of oxygen that damage every area of our bodies. One free radical can initiate tens of thousands of chain reactions that cause tremendous harm (destroy cell membranes, disrupt crucial processes in the body, reprogram DNA, form mutant cells and more). A free radical attack on a membrane usually damages a cell to the point that it must be removed by the immune system. If free radical formation and attack are not controlled within the muscle during exercise a large quantity of muscle could easily be damaged. Damaged muscle could in turn inhibit performance by the induction of fatigue. Other effects of free radicals are aging (as the cells die), emphysema (chronic obstructive lung disease), cataract, tissue damage, some diseases like stroke, liver cirrhosis, etc., kidney problems, poor auto immune system and inflammation.

### **RELEVANT FUNDAMENTAL KNOWLEDGE**

Green tea is widely consumed in Japan, China, and other Asian nations and is becoming more popular in Western nations. Green tea has been used as a medicine in China for at least 4,000 years. Some reports indicate green tea may have the ability to help prevent cancers of the skin, esophagus, stomach, colon, pancreas, lung, bladder, prostate, and breast. The secret of green tea lies in catechin polyphenols, particularly epigallocatechin gallate (EGCG). EGCG is a powerful anti-oxidant: besides inhibiting the growth of cancer cells, it kills cancer cells without harming healthy tissue. It has also been effective in lowering LDL cholesterol levels, and inhibiting the abnormal formation of blood clots.

It may also work by stopping new blood vessels from forming, a process called angiogenesis, thereby cutting off the supply of blood to cancer cells.

**Astaxanthin**, a naturally occurring carotenoid pigment, is a powerful biological antioxidant. Like vitamin E, is a lipophilic (fat-soluble) antioxidant, and thus might be expected to exert its antioxidant properties in lipid-rich cell membranes and tissues. **Astaxanthin** exhibits strong **free radical scavenging activity** and protects against lipid peroxidation and oxidative damage of LDL-cholesterol, cell membranes, cells, and tissues. Astaxanthin was also found to have excellent benefits for the cardiovascular system. By inducing enzymes that metabolize foreign compounds, astaxanthin helps the body to naturally "detoxify." **Natural astaxanthin** which has been called the "**World's Strongest Antioxidant**" because it is 550 times stronger than Vitamin E and 10 times stronger than beta-carotene.

Astaxanthin has also been found to be effective in protecting the skin from the effects of ultraviolet light, reducing the effects of age-related macular degeneration, providing protection against certain chemically-induced cancers, increasing HDL (the good cholesterol) and enhancing the body's immune system. It will also reduce inflammation and protect the nervous system, including eyes, from damage from a variety of sources, including oxidative damage, free radical damage, and damage from ultraviolet radiation. In a study, astaxanthin was administered daily over 2 weeks to 5 subjects at 3.6 mg/day, to 5 subjects at 7.2 mg/day, and to 3 subjects at 14.4 mg/day. No ill effects were reported at any dose, and in fact an antioxidant effect on serum LDL was observed, with LDL oxidation progressively slowed with increasing doses of astaxanthin.

Recent studies have shown enhanced immune response and decreased DNA damage in human subjects following Astaxanthin administration. Astaxanthin is capable of crossing the blood-brain barrier in mammals, a unique and important property in the realm of antioxidants. This characteristic allows Astaxanthin to extend its superior antioxidant activity to the central nervous system, which, being rich in unsaturated fatty acids is highly susceptible to oxidative damage. The demand for natural Astaxanthin is now emerging in the multi-billion dollar nutraceutical market, and increasingly, medical researchers believe that Astaxanthin may have significant pharmaceutical applications.

More and more research supports the conviction that a daily dose of 5 mg of Astaxanthin is of tremendous importance for health management, by protecting cells and body tissues from the oxidative stress caused by free radicals, among others.

By the late 1980s, researchers realized that **alpha lipoic acid** had long been overlooked as a powerful antioxidant. It has been proven to slow aging, help protect against heart disease, and strengthen our immune system (which fights against infections, including colds, flu, pneumonia, cancer, etc). More recently, **alpha lipoic acid** has been shown to increase brain and memory function, as well as muscle strength. Athletes report that it also improves endurance.

Alpha Lipoic Acid is a small molecule that is soluble in both water and fat. This is significant because water soluble antioxidant nutrients (vitamin C for example) are found within the cell and fat soluble antioxidants (vitamin E for example) are found on the cell membrane. Because Alpha Lipoic Acid works both inside the cell and at the membrane level, a dual protection is obtained. At the membrane level you get protection before free radicals enter the cell. Any free radicals that make it past the first line of protection are combated right in the cell itself. It is an extraordinarily broad-spectrum antioxidant able to quench a wide range of free radicals in both aqueous (water) and lipid (fat) domains. Moreover, it has the remarkable ability to recycle several other important antioxidants including [vitamins C and E](#), [glutathione](#) and coenzyme Q10, as well as itself! For these reasons, alphasipoic acid has been called the universal antioxidant.

In addition to serving as the hub of the body's antioxidant network, lipoic acid is the only antioxidant that can boost the level of intracellular glutathione, a cellular antioxidant of tremendous importance. Besides being the body's primary water-soluble antioxidant and a major detoxification agent, glutathione is absolutely essential for the functioning of the immune system. It is well reported that antioxidants should be employed for the treatment of all atherosclerosis (hardening of the arteries). Vitamins C and E and coenzyme Q-10 are well known and respected antioxidants, but all have limitations. Since Alpha Lipoic Acid has no restrictions, it is certainly an indispensable nutrient in treating cardiovascular disorders.

## **TEAPOLY CAPSULES**

Since an oxidative imbalance in the body is believed to be a root cause of many disorders and diseases including Cancer, rheumatoid arthritis, Parkinson's and Alzheimer's, as well as heart disease and stroke, it is essential that the body have the ability to restore its natural order in order to combat the appearance of these conditions. Therefore, TEAPOLY capsules, having the best-said antioxidants, are best for combating effects and diseases caused by free radicals. These antioxidants present in TEAPOLY capsules are the only way to protect one's health from free radicals before formation and once they are formed.

## **SAFETY ISSUES**

In a study conducted at Arizona Cancer Center it was observed that it is safe for healthy individuals to take green tea polyphenol products. The research study concluded that administration of EGCG at a daily dose of 800 mg (based on the EGCG content) for 4 weeks is safe and well tolerated in healthy human subjects. Therefore, consumption of Teapoly containing green tea extract with polyphenol content 150 mg per capsule is safe for consumption.

## **EFFICACIES**

- **Free radical prevention - act as "Free radical scavengers"**
- **200 times more powerful than Vitamin E**
- **Reduce the risk of heart diseases**
- **Lowers LDL oxidation**
- **Prevents Red blood Cell breakdown**
- **Protects against digestive & respiratory infections**
- **Prevents cancers of colon, pancreas & stomach**
- **Chemo preventive**
- **Prevents oxidation**
- **Reduces oxidative damage of cells**
- **Delays aging**
- **Disease prevention**

## **TARGET CONSUMERS**

- **Adults and aged**

### **People with**

- **Rheumatoid arthritis**
- **High cholesterol levels**
- **Cardiovascular disease**
- **Infection and**
- **Impaired immune function**