Selenium Plus

DESCRIPTION

Selenium Plus, provided by Douglas Laboratories, supply 200 mcg of Selenium, 100 mg of Vitamin C, and 60 IU natural vitamin E in each capsule.

FUNCTIONS

Vitamin E is one of the body's most important antioxidant nutrients. Antioxidants protect healthy cells from oxidative and free radical damage. Free radicals are unstable chemicals formed in the body during metabolism and from exposure to environmental sources, such as pollution and cigarette smoke. Free radicals are necessary for energy metabolism and immune function, but when an excessive number of free radicals are formed, they can attack healthy cells, especially cell membrane lipids and proteins. This, in turn, is thought to contribute to a number of degenerative diseases.

Vitamin E is an especially valuable antioxidant in the cell membranes, where it prevents oxidation of unsaturated fatty acids by trapping free radicals. This helps stabilize and protect cell membranes, especially red blood cells and tissues sensitive to oxidation, such as the lungs, eyes, and arteries. Selenium is a nutritionally essential trace element for humans and animals. The National Research Council's Recommended Dietary Allowance for selenium in adults ranges from 55 to 75 mcg per day depending on age and gender.

Selenium is a cofactor to about 10 selenoproteins in the body; the most important of these appears to be glutathione peroxidase (GPX). GPX uses glutathione to reduce hydrogen peroxide and thus protect cells and plasma against free radical injury. GPX activity depends on an adequate supply of dietary selenium. Recently, selenium as selenocysteine has been identified in the active center of type 1 and 3 iodothyronine deiodinases, two important enzymes regulating the formation and degradation of the active thyroid hormone, triiodothyronine (T3). Another important selenoprotein appears to be selenoprotein P, but its functions remain unclear. Selenium and vitamin E appear to have synergistic effects, since some signs of vitamin E deficiency in animals can be alleviated by dietary selenium.

Vitamin C (ascorbic acid) has numerous biological functions. Foremost, it is essential for the synthesis of collagen and glycosaminoglycans which are the building materials of all connective tissues, such as skin, blood vessels, tendons, joint cartilage and bone. Vitamin C participates in the biosynthesis of carnitine, serotonin, and certain neurotransmitters, including norepinephrine. Vitamin C is among the most powerful antioxidants in humans and animals. It is a water-soluble, chain-breaking antioxidant that reacts directly with superoxide, hydroxyl radicals, and singlet oxygen. The antioxidant functions of vitamin C appear to have clinical significance in providing protection from free radical damage to the eyes, lungs, blood and the immune system.

INDICATIONS

Selenium Plus may be a useful dietary supplement for individuals wishing to increase their intake of selenium, vitamin C and vitamin E.

FORMULA (#81802)

Each capsule contains:	
Vitamin C (as ascorbic acid)	100 mg
Vitamin E (as d-alpha tocopherol)	60 IU
Selenium (from amino acid chelate)	200 mcg

Selenium Plus

SUGGESTED USE

Adults take 1 capsule or as directed by your healthcare professional.

SIDE EFFECTS

No adverse side effects have been reported.

STORAGE

Store in a cool, dry place, away from direct light. Keep out of reach of children.

REFERENCES

Andersen O, Nielsen JB. Effects of simultaneous low-level dietary supplementation with inorganic and organic selenium on whole-body, blood, and organ levels of toxic metals in mice. Environ Health Perspect 1994;102 Suppl. 3:321-324. Cirelli A, Ciardi M, De Simone C, et al. Serum selenium concentration and disease progress in patients with HIV infection. Clin Biochem 1991;24:211-214. Dworkin BM. Selenium deficiency in HIV infection and the acquired immunodeficiency syndrome (AIDS). Chem Biol Interact 1994;91:181-186. Dworkin BM, Antonecchia PP, Smith F, et al. Reduced cardiac selenium content in the acquired immunodeficiency syndrome Alcaín FJ, Burón MI. Ascorbate on cell growth and differentiation. J Bioenerg Biomembr 1994:26:393-398. Ballmer PE, Reinhart WH, Jordan P, Bühler E, Moser UK, Gey KF. Depletion of plasma vitamin C but not of vitamin E in response to cardiac operations. J Thorac Cardiovasc Surg 1994;108:311-320. Barabás J, Nagy E, Degrell I. Ascorbic acid in cerebrospinal fluid--A possible protection against free radicals in the brain. Arch Gerontol Geriatr 1995;21:43-48. Davey PJ, Schulz M, Gliksman M, et al. Cost-effectiveness of vitamin E therapy in the treatment of patients with angiographically proven coronary narrowing (CHAOS trial). Cambridge Heart Antioxidant Study. Am J Cardiol 1998;82:414-7. For more information on Selenium Plus visit douglaslabs.com

† These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

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You trust Douglas Laboratories. Your patients trust you.

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