Coenzyme Q-10 100 mg Softgels

DESCRIPTION
Coenzyme Q-10 100 mg Softgels, provided by Nature’s Source™, contain pure Coenzyme Q-10 100 mg Softgels (ubiquinone). Coenzyme Q-10 100 mg Softgels is solubilized in a base of rice bran oil and vitamin E to enhance absorption of Coenzyme Q-10.

FUNCTIONS
Coenzyme Q-10 (ubiquinone) is an important rate-limiting cofactor in the mitochondrial electron transport chain, the biochemical pathway in cellular respiration from which adenosine triphosphate (ATP), the form of energy used by the body, is derived. Since cellular activities are dependent upon energy, Coenzyme Q-10 is crucial for the efficient functioning of nearly every cell. In addition to its well-established function as a component of the mitochondrial electron transport chain, Coenzyme Q-10 has in recent years acquired increasing attention regarding its antioxidant properties. Coenzyme Q-10 occurs in all cellular membranes as well as in blood serum and in serum lipoproteins. As a lipid-soluble antioxidant, Coenzyme Q-10 efficiently protects membrane phospholipids and serum low-density lipoproteins from lipid peroxidation. And, as recent data indicate, it also protects mitochondrial membrane proteins and DNA from free radical induced oxidative damage.

These effects of Coenzyme Q-10 are independent of those of other antioxidants, such as vitamin E; although Coenzyme Q-10 can also extend the functions of vitamin E by regenerating it from its oxidized form. Tissue Coenzyme Q-10 levels are regulated through the mevalonate pathway, increasing with various forms of oxidative stress, and decreasing during aging. Related to its antioxidant properties, Coenzyme Q-10 is important for normal immune function. This has been shown in a number of experimental and clinical studies.

Healthy people have the ability to synthesize adequate amounts of co-enzyme Q10. According to Dr. Karl Folkers and other researchers, humans can synthesize Coenzyme Q-10 from the amino acids tyrosine or phenylalanine and mevalonic acid, all of which are abundant in the body. However, the synthesis is a complex process involving 15 separate steps which require many enzymes, nutritional mineral cofactors, and vitamin coenzymes.

As a result, the biosynthesis of Coenzyme Q-10 in the human body requires a good diet – one that is high in vitamins, minerals, and other nutrient factors. Yet, it has been shown by NHANES I and II studies that many Americans do not consume an adequate diet. Rather, for many, dietary intake of water soluble vitamins, vitamin A, and some minerals and trace elements is insufficient. Many of these nutrients are essential for the biosynthesis of Coenzyme Q-10.

Thus, it is not surprising that the nutritional status of Coenzyme Q-10 tends to decline with advancing age. In addition, it has been shown that in disease states, nutrients from food sources may not be readily absorbed or bioavailable. According to Folkers and other experts, Coenzyme Q-10 should be considered an essential nutrient, as it is well established that Coenzyme Q-10 is essential for the health of every cell in the human body.

INDICATIONS
Coenzyme Q-10 100 mg Softgels may be a useful dietary supplement for those who wish to support their body’s own production of Coenzyme Q-10.

FORMULA (CQS1)
Each softgel contains:
Coenzyme Q-10 (ubiquinone) 100 mg
Vitamin E (d-alpha tocopherol) 100 I.U.
**SUGGESTED USE**
One to two softgels daily as a dietary supplement or as directed by a physician.

**SIDE EFFECTS**
No adverse effects have been reported.

**REFERENCES**


This product is not intended to diagnose, treat, cure, or prevent any disease.

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