pure encapsulations®

Manufacturers of Hypo-allergenic Nutritional Supplements



SR-CoQ_{10} with PQQ

INTRODUCED JANUARY 2010

What Is It?

PQQ (pyrroloquinoline quinone) is a novel cofactor with antioxidant and B vitamin-like activity. It is naturally present in vegetables and in the human body, including breast milk, and posseses unique neuroprotectant and cardioprotectant properties. MicroActive CoQ_{10} is a water-soluble, submicron particle-sized CoQ_{10} generated using a patented process that complexes each CoQ_{10} molecule with a beta-cyclodextrin molecule. CoQ_{10} is bound to the lipophilic end of the molecule, while the other end is hydrophilic, facilitating dispersion and transport. At the cellular surface, the complex dissociates, liberating a single CoQ_{10} molecule for efficient absorption. The extended 24-hour release of MicroActive® CoQ_{10} also allows for convenient, once-daily dosing. Clinical research indicates superior absorption compared to solubilized and crystalline CoQ_{10}, with low inter-subject variance.*

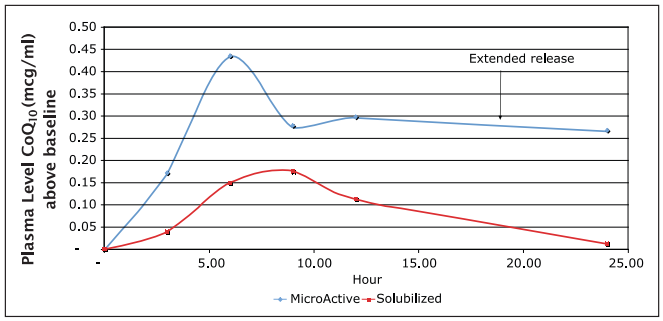

Figure 1. SR-CoQ_{10} absorption in human volunteers. Comparison of the mean plasma CoQ_{10} concentrations after a single oral dose of either SR-CoQ_{10} or solubilized softgel CoQ_{10}.

Uses For SR-CoQ_{10} with PQQ

Cardiovascular Health: PQQ and CoQ_{10} provide antioxidant and mitochondrial support through different mechanisms, providing multifunctional support for cardiovascular health. Research indicates that both PQQ and CoQ_{10} support heart muscle function and healthy cellular oxygen utilization. However, the mechanisms for this support differ. Studies suggest that PQQ promotes mitochondrial synthesis and function, while CoQ_{10} promotes energy production as a core component of cellular respiration. These actions are particularly supportive of tissues that require a lot of energy, such as the heart muscle. Furthermore, they acts as antioxidants, providing protection from free-radicals and helping to maintain the integrity of cellular membranes.*

Nerve and Cognitive Health: Numerous studies have indicated that PQQ supports nerve health. Mechanistic investigations suggest that PQQ supports several signal transduction pathways that are important in maintaining mitochondrial homeostasis and oxidative metabolism. Like CoQ_{10}, PQQ is a powerful antioxidant that supports mitochondrial function. PQQ also supports healthy levels of nerve growth factor and glutamate receptor activity. Several studies suggest that PQQ may promote learning ability and memory. In a double-blind, placebo-controlled clinical trial conducted in 71 middle-aged individuals, PQQ supplementation over a 12 week period supported healthy cognitive performance, and a combination of PQQ and CoQ_{10} provided greater support than PQQ alone.*

What Is The Source?

BioPQQ™ pyrroloquinoline quinone disodium salt is manufactured in Japan using a patented natural fermentation process. It contains 2.7 mg sodium per capsule. MicroActive® CoQ_{10}-cyclodextrin complex (SR-CoQ_{10}) contains coenzyme Q_{10} obtained naturally from fermentation and potato starch. Hypo-allergenic plant fiber is derived from pine cellulose.

Recommendations

Pure Encapsulations recommends 2 capsules daily, in the morning, with a meal.

(continued)

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

For educational purposes only. Consult your physician for any health problems.

Are There Any Potential Side Effects Or Precautions?

If pregnant or lactating, consult your physician before taking this product. At this time, there are no known side effects or precautions. Consult your physician for more information.

Are There Any Potential Drug Interactions?

CoQ_{10} may react with blood thinning medications. Consult your physician for more information.

SR-CoQ_{10} with PQQ

two vegetable capsules contain V 0

coenzyme Q_{10} (from MicroActive® CoQ_{10}-cyclodextrin complex) ..... 100 mg
BioPQQ™ pyrroloquinoline quinone disodium salt ..... 20 mg
(hypo-allergenic plant fiber added to complete capsule volume requirement)
other ingredients: potato starch, vegetable capsule

2 capsules per day, in the morning, with a meal.

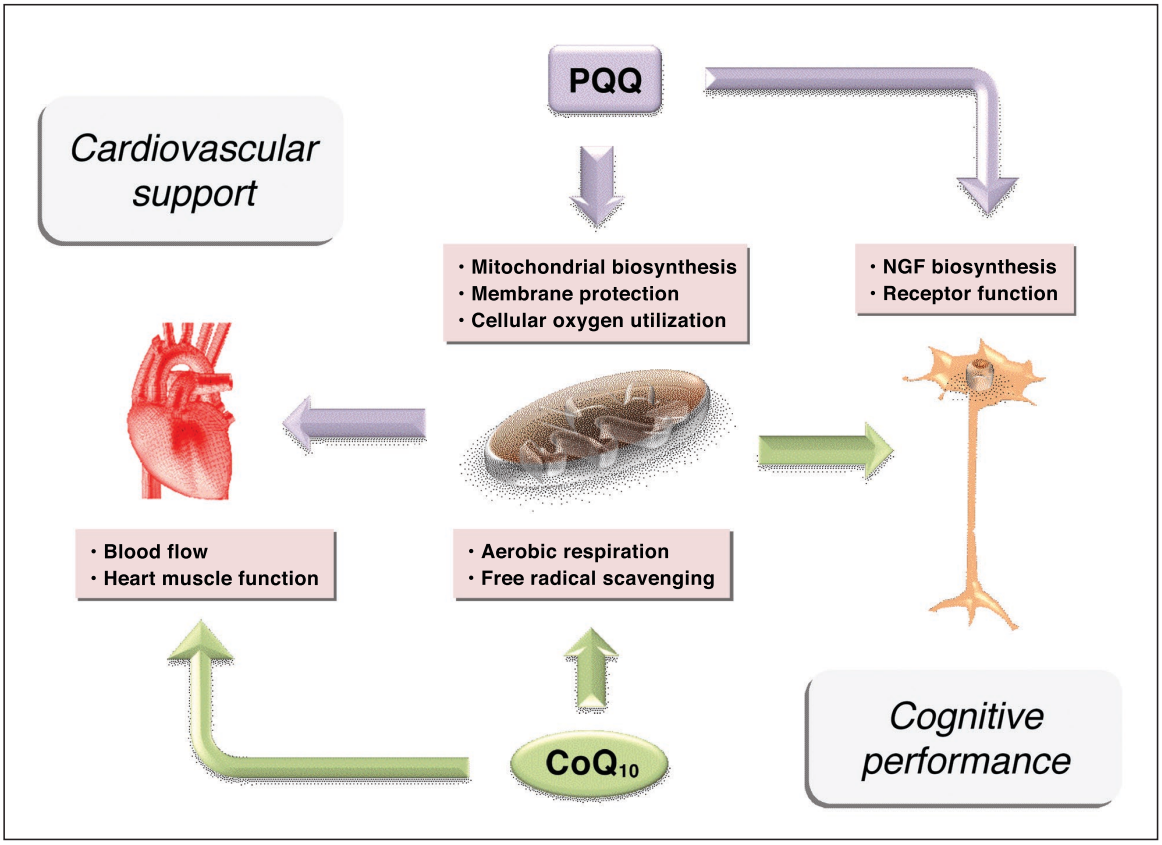

Figure 2. Complementary mechanisms of PQQ and CoQ_{10} in cardioprotection and cognitive support. PQQ promotes the synthesis of new mitochondria, in which CoQ_{10} plays a direct role in bioenergetics and antioxidant protection in the cardiovascular and nervous systems. PQQ provides additional neurotrophic support through promoting nerve growth factor (NGF) synthesis and healthy glutamate receptor function.

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— Your Trusted Source —

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