

Your Trusted Source —

Ubiquinol VESIsorb®

Introduced 2012



What Is It?

Ubiquinol VESIsorb® offers a unique self-assembling nano-colloid system to enhance ubiquinol absorption. Ubiquinol is the active antioxidant form of CoQ₁₀. It has an additional two hydrogen atoms and compromises the majority of the ubiquinone/ ubiquinol pool in the plasma of healthy young subjects. In the body, the enzymatic conversion of ubiquinone to ubiquinol in the mitochondria is a key step in the electron transport chain and the manufacture of ATP.*

Special Features

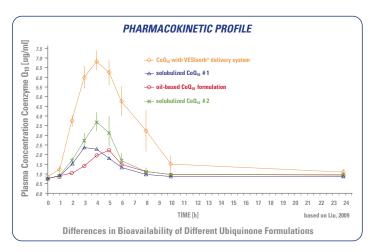
Enhanced Absorption Patented VESIsorb® Delivery System

- Developed by Vesifact, a Switzerland-based company dedicated to innovative technology and research
- Patented, lipid-based delivery system increases bioavailability of a bioactive that is fat soluble or that has poor water solubility*
- Self-assembling colloidal system forms evenly dispersed fluid droplets upon contact with water in the G.I. tract, each with a mean diameter of less than 100 nanometers and with the bioactive at its core
- Nanosized water-soluble droplets or micelles allow the bioactive to cross the water layer of the G.I. tract for absorption
- Provides extended release of the bioactive over time

The VESIsorb® technology is broken down into three steps: Step 1 Formation of the colloidal delivery system Diffusion across the unstirred water layer Transfer to the absorptive surface of the GI epithelium

Ubiquinol VESIsorb®

- A human pilot study compared a typical ubiquinol preparation to ubiquinol in the VESIsorb® delivery system and demonstrated a 696% increase in peak blood levels and a 485% increase in relative bioavailability*
- A cross-over, pharmacokinetic pilot study (single oral dose) in humans compared an oil-based CoQ_{10} preparation to CoQ_{10} in the VESlsorb® delivery system and demonstrated a 308% increase in peak blood levels (C_{max}) and a 622% increase in area under the curve (AUC_{(0-10 hrl}), a measure of 10-hour bioavailability*
- In the same study, AUC_(0-10 hr) values were 285% and 499% greater with VESIsorb® CoQ₁₀ compared to two other solubilized, bio-enhanced preparations*



CoQ10 with the VESIsorb® delivery system demonstrated a 308% increase in peak plasma levels (C_{max} = 6.9) compared to an oil-based preparation (C_{max} = 2.2). C_{max} of VESIsorb® CoQ₁₀ also exceeded values for two solubilized formulations ($C_{max} = 2.4$ and 3.7).

(continued)

Uses for Ubiquinol VESIsorb®

General Support: Ubiquinol makes up over 90% of the CoQ₁₀ found in the plasma of healthy young individuals, typically up to the age of about 40-45 years. This makes ubiquinol especially important for older individuals, individuals who may be experiencing greater levels of oxidative or physical stress, or individuals who appear not to respond to regular CoQ₁₀ supplementation (possibly due to poor conversion of CoQ_{10} to ubiquinol in the body). Research suggests that it may be more readily absorbed than the ubiquinone form. The safety and bioavailability of ubiquinol were evaluated after single oral dose and 4-week multiple dose studies. Significant gastrointestinal absorption was observed and no clinically significant adverse effects were noted.*

Cardiovascular Support: In a preliminary case report involving an open clinical evaluation using ubiquinol, a U.S. cardiologist reports that plasma CoQ₁₀ levels doubled for one 52 year-old woman after supplementation with 300 mg ubiquinol in divided doses for one month. It was also noted that ubiquinol supported a healthy ratio of CoQ₁₀ to lipids. In a separate case, a 65 year-old male not responding to CoQ₁₀ supplementation experienced a 4-fold increase in plasma CoO_{10} after supplementation with the same dose of ubiquinol. In addition, ubiquinol supported healthy ejection fraction and mitral valve function while supporting overall physical activity and quality of life.*

What Is The Source?

CoQ₁₀ is produced by microbial (yeast) fermentation. There is no residual yeast in the final product.

Recommendations

Pure Encapsulations recommends 1-2 Caplique® Capsules daily, in divided doses, with meals.

Are There Any Potential Side Effects Or Precautions?

If pregnant or lactating, consult your physician before taking this product. Rarely, CoQ_{10} may cause mild gastrointestinal upset, nausea, vomiting, diarrhea or constipation. Consult your physician for more information.

Are There Any Potential Drug Interactions?

CoQ₁₀ may be contra-indicated for individuals taking blood thinning medication. Consult your physician for more information.

Ubiquinol VESIsorb®

each Caplique® Capsule contains ()

ubiquinol® (Kaneka ΩH^{TM} active antioxidant form of $\text{Co} Q_{10})$ vitamin E (as d-alpha tocopheryl acetate)..... other ingredients: medium chain triglycerides, polysorbate 80, polyglycerol fatty acid esters, gelatin Caplique® Capsule (gelatin, glycerin, water, titanium dioxide)

1-2 Caplique® Capsules daily, in divided doses, with meals.



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