INGREDIENTS

High Absorption CoQ10 products contain pure Coenzyme Q10. BioPerine®, a natural extract derived from black pepper, is included in High Absorption CoQ10 as an evidence-based means of increasing nutrient absorption.1 Doctor’s Best High Absorption CoQ10 products with BioPerine® are designed to help restore the body’s depleted CoQ10 stores quickly and efficiently. CoQ10 taken with BioPerine® enhances nutrient absorption in the gastrointestinal tract, achieving a 30% increase in CoQ10 blood levels versus CoQ10 taken with placebo.2

Coenzyme Q10 is a vitamin-like nutrient central to energy production at the cellular level, essential for generating metabolic energy in the form of ATP. CoQ10 is also a versatile antioxidant, stabilizing cell membranes (helping to protect them from free radical damage) and contributing to their fluidity.3 Coenzyme Q10 levels decrease with age, a factor that may actually contribute to the aging process.*4 Since food content of CoQ10 can be very low, many healthcare providers recommend supplementing with Coenzyme Q10.

BENEFITS

• Helps enhance cardiovascular health and supports endothelial function* 
• Helps provide potent antioxidant protection in tissues and cells* 
• Helps replenish CoQ10 losses from statins and reduce symptoms of statin-associated muscle aches* 
• Helps replenish CoQ10 losses due to aging* 
• Helps enhancing male and female reproductive health*

EXTENDED BENEFITS

Due to the extraordinary energy requirements of our hardworking heart, the highest concentration of CoQ10 is found in heart muscle tissue. CoQ10 is known to support the heart through mitochondrial bioenergetics, the process of cellular energy transformation. Several studies have highlighted the efficacy of oral CoQ10 in improving functional capacity, endothelial function, and myocardial ventricular contractility in individuals with heart problems.5 On top of this, CoQ10 helps to promote overall cardiovascular health by confronting oxidative stress in heart and endothelial (blood

Supplement Facts

<table>
<thead>
<tr>
<th>Amount Per Serving</th>
<th>% Daily Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coenzyme Q10 (Ubiquinone)</td>
<td>100 mg †</td>
</tr>
<tr>
<td>Black Pepper Ext. (Piper nigrum)(fruit)</td>
<td>5 mg †</td>
</tr>
</tbody>
</table>

† Daily Value not established.

Other Ingredients: Extra virgin olive oil (non-GMO), softgel capsule (gelatin, glycerin, purified water), beeswax, soy lecithin, rosemary extract.

Contains Soy

Suggested Adult Use: Take 1 softgel daily preferably with food for maximum absorption, or as recommended by a nutritionally-informed physician.

USP Verified, Naturally Fermented CoQ10

Gluten Free
Store in a cool dry place.

100 mg, 60 & 120 Softgel

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</table>

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Other Ingredients: Rice powder, modified cellulose (vegetarian capsule), magnesium stearate (vegetable source), silicon dioxide.

Suggested Adult Use: Take 1 capsule daily preferably with food for maximum absorption, or as recommended by a nutritionally-informed physician.

USP Verified, Naturally Fermented CoQ10
Non-GMO/Gluten Free/Soy Free/Vegan
Store in a cool dry place.

* 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.
vessel wall) cells. CoQ10 has also been shown to modulate oxidation rates of key lipids during supplementation. This type of antioxidant activity may enhance the structural integrity of lipids and supporting healthy blood vessels and circulation, potentially creating a more favorable cardiovascular environment.

Statins are a class of lipid-lowering medications widely used in modern medicine to reduce cholesterol levels and improve cardiovascular health. Studies have demonstrated that one of the side effects of statins was the lowering body’s levels of endogenous CoQ10. Several studies have demonstrated statin-induced CoQ10 loss may be reversed with CoQ10 supplementation without having an adverse impact on the cholesterol-lowering property of statin drugs. More, the oral supplementation of CoQ10 could be beneficial in lessening some side effects of statins.

In terms of bioenergetics, CoQ10 supplementation acts to preserve energy turnover in mitochondria—our cellular powerhouses—by keeping ATP synthesis at optimal levels. Maintenance of normal energy utilization and supply is crucial for maintaining the cell’s ideal biochemical state. However, this ideal biochemical state may be compromised during the natural course of aging. Although the exact mechanism of the aging process is still unclear, several studies have come to the conclusion that CoQ10 may be involved in age-related alterations of membrane cells and tissues because of its key roles as an electron carrier in mitochondrial bioenergetics and lipophilic antioxidant: CoQ10 deficiency may impair mitochondrial energy production and increase production of reactive oxygen species. Based on several studies, its natural decline in the aging population may expose individuals to several human ailments.

Many studies have suggested CoQ10 supplementation could help preserving energy turnover in mitochondria and consequently maintaining optimum vital functions. CoQ10 oral supplementation is therefore beneficial in supporting healthy aging.

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<table>
<thead>
<tr>
<th>Serving Size</th>
<th>1 Veggie Capsule</th>
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<tbody>
<tr>
<td>Servings Per Container</td>
<td>60 &amp; 180 Servings</td>
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<tbody>
<tr>
<td>Coenzyme Q10 (Ubiquinone)</td>
<td>200 mg</td>
</tr>
<tr>
<td>Black Pepper Ext. (Piper nigrum) (fruit)</td>
<td>5 mg</td>
</tr>
<tr>
<td>(standardized to contain 95% Piperine) (BioPerine®)</td>
<td></td>
</tr>
</tbody>
</table>

† Daily Value not established.

**Other Ingredients:** Rice powder, modified cellulose (vegetarian capsule), silicon dioxide, magnesium stearate (vegetable source).

**Suggested Adult Use:** Take 1 capsule daily preferably with food for maximum absorption, or as recommended by a nutritionally-informed physician.

USP Verified, Naturally Fermented CoQ10 Non-GMO / Gluten Free / Soy Free / Vegan Store in a cool dry place.

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**Supplement Facts**

<table>
<thead>
<tr>
<th>Serving Size</th>
<th>1 Veggie Softgel</th>
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<tbody>
<tr>
<td>Servings Per Container</td>
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**Other Ingredients:** Sunflower oil, vegetarian softgel (food starch modified, glycerin, carrageenan, purified water), yellow beeswax, sunflower lecithin.

**Suggested Adult Use:** Take 1 softgel daily preferably with food for maximum absorption, or as recommended by a nutritionally-informed physician.

USP Verified, Naturally Fermented CoQ10 Non-GMO / Gluten Free / Soy Free / Vegetarian Store in a cool dry place.

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Human reproductive capacity also declines with age. Several research studies have been conducted to study the connection between oxidative stress and human reproductive health system.26 Male reproductive health is associated with the antioxidant capacity of seminal plasma and the potent antioxidant activity of CoQ10.27-29 The biosynthesis of CoQ10 in testis leads to high levels of its reduced form QH2 (ubiquinol) in semen which indicates a protective role as a scavenger of reactive oxygen species known to impair sperm cell function.30 In the same way, female reproductive health depends on CoQ10 content in follicular fluid and its relationship with oocyte fertilization.31,32

PHARMACOLOGICAL AND CLINICAL STUDIES

A prospective randomized double-blind placebo-controlled trial was conducted in 443 participants. The controlled group received a combined oral supplementation of selenium and CoQ10. Results showed that supplementation of selenium/CoQ10 reduced cardiovascular mortality therefore highlighting the positive effect of CoQ10 on cardiovascular health.33,34 Similar results were obtained from other clinical trials which led also to the conclusion that CoQ10 could potentially enhance cardiovascular health.35-37

A clinical study investigated the effects of CoQ10 in patients who were on statin therapy. Results showed CoQ10 daily supplementation significantly enhanced antioxidant enzymes activities and lowered inflammatory markers. The research concluded that patients with cardiovascular problems could benefit from CoQ10 supplementation to increase their antioxidant capacity during statin therapy.38 Several studies also showed that CoQ10 supplementation reduced mild to moderate symptoms of statin-associated muscle aches. Therefore, CoQ10 supplementation could lead to higher compliance for individuals under statin treatment and consequently provide better quality of life.39,40

Several studies have been conducted to evaluate whether diets with different fat quality and supplementation with CoQ10 could be beneficial for healthy aging. Results from those studies showed that diets combined with CoQ10 supplementation improved endothelial function and antioxidant enzyme activities while decreasing plasma lipid peroxidation products and DNA damage. These results led to the conclusion that consumption of certain diets combined with CoQ10 could be beneficial for healthy aging.41,42

In an open, uncontrolled pilot study, young participants with male reproductive problems were given CoQ10 for 6 months. Concentration of CoQ10 in seminal plasma and sperm cells was increased. A direct correlation between CoQ10 concentrations and sperm motility was found and strongly supported a cause/effect relationship. The study concluded that CoQ10 could play a positive role in improving sperm motility.43 Similar results were found from other studies where CoQ10 supplementation improved semen quality but also had beneficial effect on pregnancy rate.44,45

A pilot study was conducted to evaluate the antioxidant capacity of seminal plasma of men with reproductive health problems before and after an oral supplementation with CoQ10. Results showed CoQ10 therapy improved semen parameters and antioxidant status. This study highlighted the importance of oxidative stress in male reproductive health and the possibility of the usefulness of CoQ10 supplementation.46 Similar results were obtained in another uncontrolled male study that resulted in 45% pregnancies of their women.47

A couple of randomized clinical trials evaluated the effect of CoQ10 on female reproductive health. Results from these studies highlighted the positive effect of CoQ10 on ovulation induction and serum reproductive
**Scientific References**


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