

- ✓ Promote Overall Health of Mitochondrial DNA
- ✓ Extraordinary Antioxidant
- ✓ Promote Cognitive Function
- ✓ Module Neuronal Activity



PQQ: An Extraordinary Antioxidant

PQQ Complex with CoQ10 features PQQ (pyrroloquinoline quinone), a unique B vitamin-like nutrient. It offers nerve, cardiovascular and cognitive (learning and memory) support. This formula is coupled with natural source, fermented CoQ10 (trans isomer form) which promotes cellular energy and offers premier antioxidant support. This formula is anchored by PhytoMarine Support, a biocompatible botanical blend that offers broad spectrum phyto-nutritional support.

Recent science has demonstrated that PQQ is an extraordinary antioxidant. It is backed by clinical science that suggests that it has the robust ability to activate cell signaling pathways directly involved in promoting mitochondrial energy metabolism as well as supporting healthy nerve responses that promote overall cognitive function. PQQ is an exceptional nutrient powerhouse that represents a new nutritional intervention that may effectively reinforce the mitochondria's limited defenses and thus promote the overall health of mitochondrial DNA.



These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure or prevent any disease.



PRL's Commitment to Excellence:
Each PRL Formula Meets or Exceeds FDA/cGMP Standards



When mitochondrial energy drops, a cell's sensitivity to excitotoxicity is greatly increased.

Every one of the trillion plus cells in your body contains 2,000 to 2,500 mitochondria per cell! Our mitochondria are responsible for converting the nutrients we eat into energy which in turn powers our cells so we can perform at our peak function. Compared to a whole cell, the tiny mitochondria that lives within the larger cell, is highly susceptible to free radical damage from stress, dietary elements and more. As we age, mitochondrial stress results in the decline of mitochondrial energy and function.

When our mitochondria are functioning at higher levels, they act to promote strength and vitality of the body. When our mitochondrial energy drops, the cell's sensitivity to excitotoxicity is greatly increased so that exposure to even normally occurring amounts of neurotransmitters, such as exposure to glutamate, can create an excitotoxic effect. This process can send the cell into a downward tailspin, whereby the cell is even more susceptible to free radical stress, and eventually, this process can end up creating a runaway neurotransmitter response. This in turn can make the cell less able to defend itself against further free radicals, until eventually the cell's P-53 gene bank is activated to destroy itself.

Modulate Neuronal Activity and Promote Cognitive Function

This vulnerability of the mitochondrial DNA to free radical stress can be elegantly altered by the intervention of oral PQQ. PQQ can help modulate neurotransmitter activity by maintaining healthy

levels of nerve growth factor and supporting the functions of synaptic and intracellular neuronal responses. Through the synaptic NMDA pathway (the N-methyl D-aspartate pathway), PQQ can help modulate the excitatory activity of glutamate and is highly regarded for its role in maintaining neuronal health which can thus promote overall cognitive function.

Support the Body with Methyl Donors

When the diet is deficient in biologically available methyl donors and cofactors such as vitamin B12 (as methylcobalamin), folate (as 5-methyltetrahydrofolate), vitamin B6 (as pyridoxal-5-phosphate) and choline, homocysteine metabolism may be compromised. Elevated homocysteine levels have been found to act as an excitotoxin that alters the NMDA receptor sites, which can lead to multiple negative effects such as the generation of other free radicals, such as peroxynitrite, 4-HNE, hydroxyl and peroxy radicals, and activation of the eicosanoid cascade and its negative, inflammatory prostaglandins.

PQQ with CoQ10 - A Dynamic Duo!

PRL's formula has been designed to top off our high class PQQ nutrient by adding our live-source, fermented CoQ10. Our CoQ10 is produced through a natural fermentation process which yields 50 mg/capsule of the highly bioavailable, preferred trans isomeric form of CoQ10. Our process does not use polysorbate 80 (an emulsifier made from polyethoxylated sorbitan), or undesirable flowing agents or other excipients. The natural trans-isomer of CoQ10 is the most desirable because it is identical to the CoQ10 produced by all the cells in the body.

The level of the cell's health is in direct proportion to the mitochondria's ability to neutralize two key interacting forces that it is regularly exposed to: free radical stress and excitotoxicity. Poor mitochondrial response can lead to devastating effects on the heart and brain and potentially, all the cells of the body. A wise choice is to support the body's cellular health and its mitochondria with high quality, targeted nutrients.

To support the body's healthy mitochondrial efforts, **PQQ Complex with CoQ10** delivers unmatched results when you need it most. Begin **PQQ Complex with COQ10** today to live well for tomorrow.

INGREDIENTS

Each Vegetarian Capsule Provides:

Calcium (as carbonate from Aquamin® F)	80 mg
PhytoMarine Support Blend™	425 mg
Aquamin F® Mineralized Red Algae (whole) (<i>Lithothamnion sp.</i>), Organic Turmeric (rhizome) (<i>Curcuma longa</i>), Lion's Mane (fruiting body) Extract (<i>Hericium erinaceus</i>), Green Tea Extract (leaf) (<i>Camellia sinensis</i>)	
Coenzyme Q10 (fermented)	50 mg
PQQ (Pyrroloquinoline quinone)	10 mg

Other Ingredients: Vegetable Cellulose Capsule

Suggested Use. Take 1 capsule, twice daily or as directed by a health professional.

Code: 2085 (60 vegetarian caps/bottle); Violite® Container R2.0