



MicroActive® CoQ10

CoQ10 is an essential, naturally occurring substance found in nearly every cell of the body with the greatest concentrations being in the heart and the liver. Since absorption and delivery are key when choosing a CoQ10 supplement, Energetix offers a micronized complex that is:

Clinically proven to offer:

- Superior bioavailability
- 24-hour time release
- Enhanced absorption in 100% of users

Energy Production and Antioxidant Protection

Energy production is one of the body's major metabolic concerns and yet everyone seems to be short of energy. When energy production is low, the body will budget its resources and utilize expenditures only on essentials, reducing mobility, creativity and vibrancy. Antioxidants protect the body from particles known as free radicals, which damage cell membranes, tamper with DNA, and may ultimately destroy cells.

Meeting the Challenges of Absorption

A powerful antioxidant, Coenzyme Q10 (or CoQ10) is a vital part of an enzyme complex that helps cells to generate energy. Each cell of the body can generate its own CoQ10. However, production is frequently reduced by illness, aging or various medications such as statins. Supplementing CoQ10 poses certain challenges as it is often poorly absorbed for two major reasons:

1. CoQ10 molecules occur naturally in crystals, bound to each other in a form that is too large for cells to absorb.
2. CoQ10 is fat-soluble and is difficult to transport through the digestive system as compared to molecules that are water-soluble.

Studies Show the Difference

MicroActive® CoQ10 is processed utilizing a patented method that address both of these challenges by complexing the CoQ10 molecules with two β -cyclodextrin molecules in a water medium. When the micronized complex arrives at the cell it comes apart, depositing a single CoQ10 molecule for efficient absorption. The non-GMO, potato-derived β -cyclodextrin also slows the release of CoQ10 in the small intestine, delivering sustained release over 24-hours. The result is a CoQ10 that has superior bioavailability, 24-hour time release and is shown to provide enhanced absorption in 100% of users in clinical studies.

Order Information

Call Customer Service:
0844 800 0018

Email:
info@precisionhealth.co.uk

Customer Service Hours:
9 am to 5 pm
Monday - Friday

13098 MicroActive® CoQ10
(60 capsules)

Synergistic Considerations

Circulopath
Metabopath

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MicroActive® CoQ10

Ingredients

CoQ10

CoQ10 molecule with two β-cyclodextrin molecules in a water media. One side of the molecule is fat-soluble and holds the CoQ10, while the other side is water-soluble and makes for efficient transport through the digestive system.

Supplement Facts		
Serving Size: 1 capsule		
Servings Per Container: 60		
	Amount Per Serving	%DV
Coenzyme Q10†	100 mg	*
* Daily Value (DV) not established.		

r03-18

References:

1. Kagan D, Madhavi DL. Microactive® CoQ10 highly bioavailable CoQ10 complex: nutritional supplements and food use. *BioActives Science Report*; 2006.
2. Kagan D, Madhavi D. A study on the bioavailability of a sustained-release Coenzyme Q10-β-cyclodextrin complex. *Integrative Medicine*. 2010; 9(1): 20-24.
3. BioActives LLC. MicroActive CoQ10/β-CD complex – in vivo study. Worcester, MA: BioActives LLC; 2009.
4. Bank G, Kagan D, Lachlan K, Madhavi D. “Universal” and “reliable” bioavailability claims: criteria that may increase physician confidence in nutritional supplements. *Natural Medicine Journal*. 2010; 2(1): 1-6.

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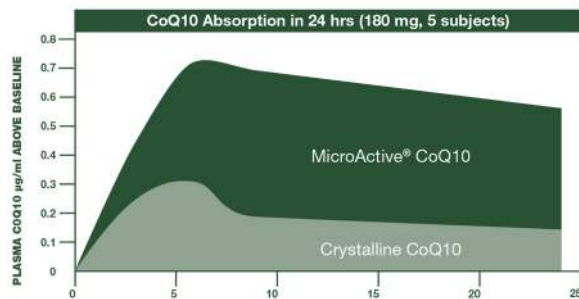
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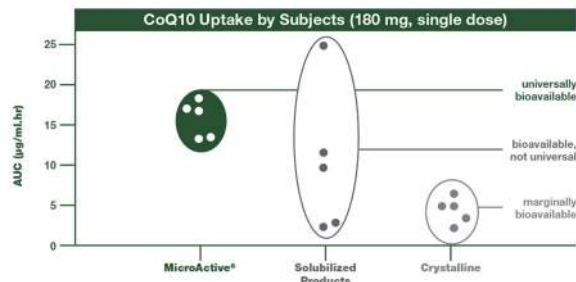


MicroActive® CoQ10 Clinical Study Results

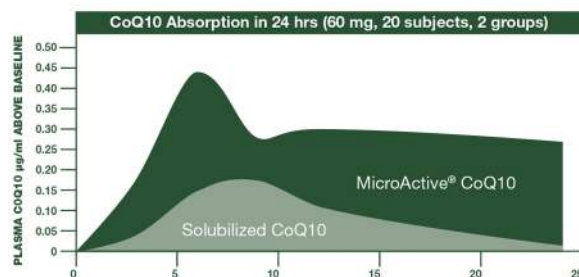
Absorption Performance MicroActive® vs Crystalline CoQ10



Individual Subject's CoQ10 Absorption After Single Oral Dose



Absorption Performance MicroActive® vs Oil Solubilized CoQ10 Softgel



Absorption Results

Comparison	Conditions	Result
MicroActive® vs Crystalline	24 hr 180 mg 5 Ss	370% better (p<0.0001)
MicroActive® vs Solubilized	24 hr 180 mg 5 Ss	158% better (p<0.05)
MicroActive® vs Solubilized	24 hr 60 mg 20 Ss	268% better (p<0.006)
MicroActive® vs Solubilized	3 weeks 60 mg 20 Ss	70% better (p<0.03)

Mean Plasma Levels - Extended Results

Comparison	Conditions	Result
MicroActive® vs Solubilized	1 week 60 mg 20 Ss	204% better*
	2 week 60 mg 20 Ss	187% better (p<0.002)
	3 week 60 mg 20 Ss	170% better (p<0.03)

*not statistically significant

Extended Release Results (t_{max} to 24 hr)

Comparison	Conditions	Result
MicroActive® vs Crystalline	24 hr 180 mg 8 Ss	230% better (p<0.005)
MicroActive® vs Solubilized	24 hr 180 mg 5 Ss	42% better (p<0.002)
MicroActive® vs Solubilized	24 hr 60 mg 20 Ss	250% (p<0.04)

Uniform Response Results

Comparison	Conditions	Result
MicroActive® vs Crystalline	24 hr 180 mg 8 Ss	7 MicroActive® subjects double plasma level over baseline / 0 Crystalline (p<0.01)
MicroActive® vs Solubilized	3 weeks 60 mg 20 Ss	100% double plasma level over baseline vs 44% solubilized (p<0.008)
MicroActive® vs Solubilized	24 hr 60 mg 20 Ss	Number of subjects with AUC above 12 mg MicroActive®: 5; Softgel: 1; Crystalline: 0 (p<0.004)
MicroActive® vs Solubilized	24 hr 180 mg 5 Ss	Variance in uptake 4.1x more for solubilized (p<0.003)

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