



500 Simmon Dr.  
Osceola, WI 54020, USA  
[www.unitedbiosci.com](http://www.unitedbiosci.com)  
651.464.2822

## Technical Data Sheet

Product Name: CoQ10 Complex (Coenzyme Q10), CO<sub>2</sub> Extracted

Chemical Name: Ubiquinone-10, CoQ10

Part Used: NA

Product Code: COQ10-CO2-001

### Product Description

This CO<sub>2</sub>-extracted powder contains Coenzyme Q10 (Ubiquinone-10), derived from high-quality sources, standardized for maximum potency. It is produced using the latest supercritical CO<sub>2</sub> extraction technology to preserve the bioactivity of the CoQ10 molecules. CoQ10 is a powerful antioxidant and is essential for energy production at the cellular level, supporting cardiovascular health, skin health, and overall well-being. The product is designed for use in nutraceuticals, functional foods, and dietary supplements.

### Tests and Specifications

TESTS	DESCRIPTION	UNITS	METHODS	SPECIFICATIONS
<b>Extract to Biomass Equivalency</b>	<b>Ratio of extract potency to biomass potency</b>		<b>HPLC</b>	<b>10:1</b>
<b>Organoleptic</b>				
Description	Fine powder	Observation		Free-flowing light yellow powder
Color	Yellow	Observation		Uniform yellow color
Odor	Characteristic	Observation		Slightly sweet, neutral aroma
<b>Assay</b>				
Total CoQ10	Assay	%	HPLC	98% ± 1%



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Moisture Content		%		<5%
<b>Heavy Metals</b>				
Arsenic	ICPMS	ppm	JOAOC 2016 99(3)	<1.5
Lead	ICPMS	ppm	JOAOC 2016 99(3)	<0.5
Mercury	ICPMS	ppm	JOAOC 2016 99(3)	<0.1
Cadmium	ICPMS	ppm	JOAOC 2016 99(3)	<0.2
<b>Microbial Purity</b>				
Aerobic Plate Count (APC)		cfu/g	Test: AOAC 990.12 Limit: USP <2021>	<1,000
Coliforms		cfu/g	AOAC 989.1 Limit: USP <2021>	<100
Yeast and Molds		cfu/g	AOAC 997.02 Limit: USP <2021>	<100
E. Coli		cfu/g	AOAC 992.3 Limit: USP <2021>	Absent
Salmonella sp.		cfu/g	AOAC PTM #061702 Limit: USP <2021>	Absent



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S. aureus		cfu/g	AOAC 2003.07 Limit: USP <2021>	Absent
Pesticides	Broad array of pesticides tested for botanical articles		USP <561>	Pass

## Product Information

Item Number	Details
<b>CAS-Number</b>	303-98-0
<b>Country of Origin</b>	UNITEDBIOSCIENCE product is manufactured and guaranteed in the USA.
<b>Compendia References</b>	USP <561>
<b>Harmonized Tariff Schedule Code</b>	29146200
<b>Solubility</b>	UNITEDBIOSCIENCE product is soluble in fats and oils. UNITEDBIOSCIENCE product is slightly soluble in alcohol.
<b>Stability and Storage</b>	The shelf life in sealed, original containers stored at <25°C /77°F and well protected from light and excessive heat exposure is 24 months after the date of manufacture.
<b>GMP</b>	UNITEDBIOSCIENCE confirms that the product is manufactured in a facility adhering to cGMP as defined by the FDA 21 CFR Part 117. Certified by Wisconsin State Department of Health (DATCP).



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<b>Non-GMO and Organic Compliance</b>	Product <b>IS NOT USDA Certified Organic</b> . Product <b>IS free</b> of genetically modified organisms.
<b>Vegetarian/Vegan Statement</b>	Product <b>IS</b> vegetarian and vegan, as it contains no animal-derived ingredients.

## Applications

CoQ10 (Ubiquinone-10) is known for its critical role in energy production and its powerful antioxidant properties. Common uses include:

- **Cardiovascular Health:** Supports heart health by enhancing energy production in the heart muscle.
- **Skin Health:** Protects the skin from oxidative damage and helps maintain youthful skin.
- **Anti-aging Benefits:** Reduces the effects of aging by protecting cells and tissues from damage.
- **Cellular Energy:** Enhances cellular energy production, improving overall vitality.

## Packaging Details

Container Type	Net Weight	Gross Weight	Dimensions	Qty per Pallet Layer
Sample pouch	5 g	5.1 kg	3" x 4" (50mm x 100mm)	50 samples to a box 8" x 10" x 6" (21cm x 26cm x 15cm); 20 boxes per pallet layer
Aluminum Bottle	1 kg	1.1 kg	5" x 12" (12cm x 30cm)	72 bottles per pallet layer
Food grade resealable pouch	10 kg	11 kg	12" x 6" x 20" (30cm x 15cm x 50cm)	24 pouches per pallet layer
Food grade resealable pouch	20 kg	27 kg	16" x 8" x 28" (40cm x 20cm x 70cm)	15 pouches per pallet

## Revision History

Revision	Modified By	Date of Change	Description of Change
1.0	Initial Drafter	01/23/2025	Created the first version of the specification sheet for Ubiquinone-10, CoQ10.
1.1	Quality Assurance	01/25/2025	Reviewed and updated microbial purity specifications to align with AOAC.
1.2	Regulatory Team	01/27/2025	Added "USDA Organic" certification details and compliance statements.
1.3	Product Manager	01/30/2025	Revised nutritional data and packaging details for improved accuracy.
1.4	Technical Writer	02/02/2025	Clarified product description, revised assay section to include specific HPLC details.
1.5	Regulatory Officer	02/05/2025	Final review for compliance with FDA and cGMP guidelines.