

Certificate of Analysis

Product Name: Coenzyme Q10	Batch No. : ML20240514-1
Specification: 98%	Quantity: 500kg
Manufacture Date: 5-14-2025	Expiry Date: 5-13-2027

TEST ITEMS	SPECIFICATIONS	TEST RESULTS	TEST METHODS
Physical & Chemical Data			
Appearance	Yellow to orange crystalline powder	Conforms	Visual
Analytical Quality			
Assay	98.0%-101.0%	99.5%	HPLC
Identification			
Infrared Absorption	IR spectra obtained with the sample corresponds to that obtained with standard substance	Conforms	USP<197>
Color Reaction	A blue color appears	Conforms	USP<Ubidecarenone>
Melting Point	48.0 ° C-52.0 ° C	49.5 ° C-50.5 ° C	EP<2.2.60>
Loss on Drying	≤0.2%	0.10%	USP<731>
Residue on Ignition	≤0.1%	0.08%	USP<281>
Ethanol	≤5000ppm	Absent	USP<467>
Impurity F	≤0.5%	0.05%	EP<Ubidecarenone>
Chromatographic Purity			
Coenzymes Q7, Q8, Q9, Q11, and Related Impurities	≤1.0%	0.57%	USP<Ubidecarenone>
Ubidecarenone (2Z)-Isomer and Related	≤1.0%	0.16%	USP<Ubidecarenone>
Obtained from Chromatographic Purity Procedures 1 and 2	≤1.5%	0.70%	USP<Ubidecarenone>
*Contaminants			
Heavy Metals	≤10ppm	Certified	USP<231>
Lead (Pb)	≤1ppm	Certified	GF-AAS
Arsenic (As)	≤1ppm	Certified	HG-AAS
Cadmium (Cd)	≤1ppm	Certified	GF-AAS
Mereury (Hg)	≤0.1ppm	Certified	HG-AAS
Microbiologieal			
Total Aerobic Microbial Count	≤1000cfu/g	<10cfu/g	USP<2021>
Total Moulds and Yeasts Count	≤100cfu/g	<10cfu/g	USP<2021>
Enterobacterial	≤3MPN/g	<3MPN/g	USP<2021>
*Salmonella	Negative/10g	Certified	USP<2022>
*E. Coli	Negative/10g	Certified	USP<2022>
*Staphylococcus Aureus	Negative/10g	Certified	USP<2022>

Remark: *Perform tests two times a year

"Certified" indicates that data are obtained by statistically-designed sampling audits

Conclusion: Conform to the In-house standard.

Shelf Life: The product may be stored for 24 months in the unopened original container at room temperature.

Packing & Storage: 10kg carton or 25kg drum.

It shall be stored in tightly closed containers at room temperature, and protected from heat, light, moisture and oxygen

Products are for research use only • Not for human or veterinary use

Tel: +1 708 310-1919

InvivoChem LLC
Fax: +1 708 557-7486
<http://www.invivochem.com/>

Email: info@invivochem.com