

BaseBulk

CERTIFICATE OF ANALYSIS

Product Name	Coenzyme Q10
Batch No	516-20250303
Manufacturing Date	Mar. 03, 2025
Expiry Date	Mar. 02, 2028

Physical Properties

Test	Specification	Result	Standard Referenced
Appearance	Yellow to orange crystalline powder	Complies	Visual
Odor	Characteristic	Complies	Sensory
Loss on drying	≤0.2%	0.01%	2g/105°C/5hrs
Residue on Ignition	≤0.1%	0.01%	2g/800°C/5hrs
Melting point	48°C~52°C	49.2°C~50.7°C	USP
Loose density	/	0.2562 g/ml	W/V
Tapped density	/	0.4122 g/ml	W/V
Particle Size	≥90% pass 80 mesh	Complies	USP

Identification

Test	Specification	Result	Standard Referenced
IR spectrum	Corresponds to reference standard	Complies	USP
Color reaction	A blue color appears	Complies	USP

Chemical Tests

Test	Specification	Result	Standard Referenced
Heavy metals	≤10 mg/kg	Complies	USP
Arsenic (As)	≤1.0 mg/kg	Complies	USP
Lead (Pb)	≤0.5 mg/kg	Complies	USP
Cadmium (Cd)	≤0.5 mg/kg	Complies	USP
Mercury (Hg)	≤0.1 mg/kg	Complies	USP

Methanol	≤3000 ppm	Complies	USP
Ethanol	≤1000 ppm	22.4 ppm	USP
Hexane	≤1 ppm	0.2 ppm	USP
Isopropyl ether	≤300 ppm	Complies	USP

Assay

Test	Specification	Result	Standard Referenced
Q10 (anhydrous basis)	98%~101%	99.17%	USP

Impurities

Test	Specification	Result	Standard Referenced
Coenzymes Q7~Q11 & related impurities	≤1.0%	0.53%	USP
Ubidecarenone (2Z)-Isomer	≤0.5%	0.20%	USP
Total impurities	≤1.5%	0.71%	USP

Microbiological Tests

Test	Specification	Result	Standard Referenced
Total plate count	≤1000 CFU/g	<10 CFU/g	GB 4789.2
Yeast & Mould	≤100 CFU/g	<10 CFU/g	GB 4789.15
Coliforms	Negative/10g	Negative	GB 4789.3
Salmonella	Negative/25g	Negative	GB 4789.4
S. aureus	Negative/25g	Negative	GB 4789.10

Else

Storage condition	Seal and store in a cool and dry place, avoiding direct sunlight
Shelf life	Three years when properly stored