

ROCHEM INTERNATIONAL, INC.

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PRODUCT SPECIFICATION

COENZYME Q10

USP/EP

Product Name:	Coenzyme Q10 (Ubiquinone)
Batch Number:	XXXXXXXXXXXXXX
Batch Size:	XXXXXXX
Manufactured Date:	XXXXXXXX
Expiry/Expiration/Retest Date:	XXXXXXXX
CAS No.:	303-98-0
ITEMS	SPECIFICATIONS
Appearance:	Yellow to orange crystalline powder
Odor:	Characteristic
Solubility:	Soluble in ether, slightly in dehydrate alcohol; practically insoluble in water.
Melting Point:	48°C ~ 52°C
Identification: A: IR B: Color reaction: Positive C: HPLC	A: Sample spectrum consistent with the spectrum for USP Reference Standard B: A blue color appears C: The retention time corresponds to the reference.
Particle Size:	100% Pass 80 Mesh 90% Pass 100 Mesh
Water:	NMT 0.2%
Residue on Ignition:	NMT 0.1%
Heavy Metals: Arsenic: Cadmium: Lead: Mercury:	NMT 10ppm NMT 1ppm NMT 1ppm NMT 0.5ppm NMT 0.1ppm
Chromatographic Purity: Coenzyme Q7, Q8, Q9, Q11 and related impurities: Ubiquinone (2Z)-isomer and related impurities: Total impurities:	NMT 1.0% NMT 1.0% Total 1 & 2: NMT 1.5%
Related Substances: Any Impurity: Total Impurities:	NMT 0.5% NMT 1.0%
Impurity F:	NMT 0.5%
Residual Organic Solvents: Ethanol: Isopropyl Ether: n-Hexane:	NMT 5000ppm NMT 300ppm NMT 290ppm
Microbial Limits Total Plate Count: Yeast & Mold: Coliforms: E.Coli: S. Aureus	≤1000 cfu/g ≤100 cfu/g ≤10 cfu/g Negative Negative

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Salmonella:	Negative
Bulk Density:	0.25 ~ 0.45 g/ml
Assay (HPLC): Anhydrous basis	98.0% ~ 101.0%
Assay (UV):	97.0% ~ 103.0%
Exp Date:	2 Years

Rev.01