

SPECIFICATION SHEET

PRODUCT NAME : Ubidecarenone (COENZYME Q10)

Tests	Specifications		Method
Appearance	Yellow to orange crystalline powder.		Visual
Identification	IR	IR spectrum of the test specimen should be consistent with the IR spectrum of reference standard.	USP <197K>
	Color Reaction	A blue color appears.	USP monograph
Melting Point	48°C~52°C		In-house
Solubility	Soluble in ether, very slightly soluble in dehydrated alcohol; practically insoluble in water.		In-house
Water	≤0.2%		USP <921>
Residue on Ignition	≤0.1%		USP <281>
Chromatographic Purity	Related impurities	≤ 1.0%	HPLC
	Isomer and related impurities	≤0.5%	
	Total impurities (Test 1 & 2)	≤ 1.5%	
Residual Solvent	Ethanol	≤5000ppm	GC
	Ethyl acetate	≤5000ppm	
	n-Heptane	≤5000ppm	
Heavy metal	Pb	≤0.5ppm	USP<233>
	Cd	≤ 0.5ppm	
	As	≤ 1.0ppm	
	Hg	≤ 0.1ppm	
Microbial limits	Total Aerobic Microbial Counts	≤ 1000cfu/g	USP<61>
	Total Yeast and Mold Counts	≤ 50cfu/g	
	Bile-tolerant gram negative bacteria	≤ 10MPN /g	
	E.coli	Absent in 10g	USP<62>
	Pseudomonas aeruginosa	Absent in 10g	
	Salmonella	Absent in 25g	
	Staphylococcus aureus	Absent in 25g	
Particle	90% pass 80 mesh		SIEVE
Assay (Anhydrous)	98.0~ 101.0%		HPLC