

CERTIFICATE OF ANALYSIS

Product Name	Coenzyme Q10	Origin of Material	China
Batch Number	YOUTH-20240618	Specification:	98%
MFG. Date	2024.06.18	Expiration Date	2026.06.17
Batch Quantity	200KG		

TEST	ITEMS	TEST	RESULTS	TEST	METHODS
------	-------	------	---------	------	---------

SPECIFICATIONS

Physical & Chemical Data

Appearance	Yellow to orange	Conforms	Visual
crystalline powder			

Analytical Quality

Assay	98.0%-101.0%	98.2%	HPLC
Identification	IR spectra obtained with the sample		
Infrared Absorption	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	48.7°C-51.8°C	EP<2.2.60>
Loss on Drying	≤0.2%	0.04%	USP<731>
Residue on Ignition	≤0.1%	0.04%	USP<281>
Ethanol	≤5000ppm	0ppm	USP<467>
Impurity F	≤0.5%	0.03%	EP<Ubidecarenone>
Chromatographic Purity			
Coenzymes Q7,Q8,Q9,Q11,and Related Impurities	≤1.0%	0.20%	ISP<Ubidecarenone>
Ubidecarenone (2Z)-Isomer and Related	≤1.0%	0.40%	USP<Ubidecarenone>
Obtained from Chromatographic Purity Procedures 1 and 2	≤1.5%	0.60%	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
Mercury (Hg)	≤0.1ppm	Certified	HG-AAS

Microbiological

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&20kg Carton

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

QC MANAGER: Feng Li

ANALYST:Guo Shan

