

CERTIFICATE OF ANALYSIS

Product Name:	L-carnitine		
CAS No.:	541-15-1	Ref Standard:	USP43
Batch No.:	20220313	Manuf. Date:	Mar. 13, 2022
Quantity:	650kg	Expiration Date:	Mar. 12, 2024
Storage Condition:	Preserve in tight containers at controlled room temperature.		

TEST ITEM	SPECIFICATION	RESULTS
Appearance	White crystalline powder with hygroscopic properties	Conforms
Identification:IR	The sample spectrum. is consistent with the standard spectrum.	Conforms
Physical &Chemical Characteristics		
Specific Rotation	-29.0° ~ -32.0°	-31.25°
Water Content	≤4.0%	0.1%
pH Value	5.5~9.5	7.34
Residue on ignition	≤0.5%	0.07%
Chloride	≤0.4%	Conforms
Sodium salt	≤0.1%	Conforms
Potassium	≤0.2%	Conforms
Heavy Metals	≤20ppm	Conforms
Residual solvent (Ethanol)	≤5000ppm	400ppm
Microbiological Tests		
Total plate Count	≤1000cfu/g	Conforms
Yeast & Mold	≤100cfu/g	Conforms
E.Coli.	Negative	Negative
Salmonella	Negative	Negative
Staphylococcus	Negative	Negative
Assay(HPLC)	97.0%~103.0%	99.82%
Conclusion:	Conform to the USP43 Standard.	

Tested by: Tiantian Wang

Approved by:Yulian Liu