



Certificate of Analysis

Product name	L-carnitine base	CAS	541-15-1
Batch no.	20230315	QTY	20000kg
Manufacture date	2023-03-15	Test Date	2023-03-15
Report Date	2023-03-15	Retest date	2024-03-15
Package	25kg/drum	Test method	USP40

Item	Specification	Results
Appearance	White Crystalline hygroscopic powder	Conforms
Identification	Conform to IR absorption spectrum of reference standard	Conforms
Specific Rotation $[\alpha]_D^{20}$	-29°~-32°	-31.4°
PH	5.5-9.5	7.2
Water	≤4%	0.13%
Residue on ignition	≤0.5%	0.04%
Chloride	≤0.4%	<0.4%
Potassium	≤0.2%	0.0002%
Sodium	≤0.1%	0.0025%
Heavy metals	≤0.001%	<0.001%
Assay by anhydrous (Titration)	97.0%~103.0%	99.3%
Residual Solvents (ethanol)	≤0.5%	0.03%
Cyanide	≤1ppm	N.D.
Conclusion	The test results conform to the standard of USP40.	

Tested by: Meng Xiao

Checked by: Shen Junli

Approved by: He Youguang

