

CERTIFICATE OF ANALYSIS

Product Name	L-Carnitine Base	Batch No	PY-LC20190110
Quantity	1000KG	Analysis Date	Jan.13,2019
Mfg. Date	Jan.10,2019	Exp. Date	Jan.09,2021
Package	25kg/Drum	Standard	USP40

No.	Item	Specification	Result
1.	Appearance	White crystals or crystalline powder	Complies
2.	Identification	IR	Complies
3.	Assay	98.0-102.0%	99.2%
4.	Specific Rotation	-29.0° ~ -32.0°	-31.2°
5.	Bulk density	0.3-0.6g/ml	Complies
6.	Tapped density	0.5-0.8g/ml	Complies
7.	PH	5.5 ~ 9.5	7.2
8.	Residue on Ignition	≤0.50%	0.10%
9.	Water	≤1.0%	<0.12%
10.	Heavy Metals	≤10ppm	<10ppm
11.	Pb	≤3ppm	<3ppm
12.	As	≤1ppm	<1ppm
13.	Cd	≤1ppm	<1ppm
14.	Hg	≤0.1ppm	<0.1ppm
15.	Cl ⁻	≤0.4%	<0.4%
16.	Potassium	≤0.2%	<0.2%
17.	Sodium	≤0.1%	<0.1%
18.	CN ⁻	Not detectable	Not detectable
19.	Residual Solvents	≤0.50%	Complies
20.	Total Plate Count	≤1,000cfu/g	<1,000cfu/g
21.	Yeasts & Molds	≤100cfu/g	<100cfu/g
22.	E.Coli	Negative	Negative
23.	Salmonella	Negative	Negative
24.	Conclusion	Conform to the USP40 Standard	

Analyst: xuli

QC: lixiaochen