



**Certificate of Analysis**

**Ingredient Name:** L-Carnitine USP  
**Batch Number:** 10100120220157  
**Quantity:** 1000KGS  
**Country of Origin:** China  
**Date of Manufacture:** Jan.12,2022  
**Date of Re-Test :** Jan.11,2024

Item	Standard	Results	Method
Appearance	White crystals or crystalline powder	White crystalline powder	Organoleptic
Identification	IR	Positive	USP
Appearance of Solution	Clear and Colourless	Clear and Colourless	Ph.Eur.
Specific Rotation	-29.0°~-32.0°	-31.31°	USP
pH	5.5~9.5	6.86	USP
Loss on Drying	≤0.5%	0.26%	USP
Assay	97.0%~103.0%	99.72%	USP
Residue on Ignition	≤0.1%	0.04%	USP
D-Carnitine	≤0.2%	0.08%	HPLC
<b>Residual Solvents:</b>			
Residue Ethanol	≤5000ppm	Conforms	USP
Heavy Metals	≤10ppm	<10ppm	USP
Arsenic	≤1ppm	<1ppm	USP
Chloride	≤0.4%	<0.4%	USP
Potassium	≤0.2%	<0.2%	USP
Sodium	≤0.1%	<0.1%	USP
Cyanide	Absent	Absent	Ch.P.
Lead	≤3ppm	<3ppm	USP
Mercury	≤0.1ppm	<0.1ppm	USP
Cadmium	≤1ppm	<1ppm	USP
Total Plate Count	≤1000Cfu/g	20 Cfu/g	USP
Yeast & Mold	≤100Cfu/g	10 Cfu/g	USP
E.Coli	Negative	Negative	USP
Salmonella	Negative	Negative	USP



We certify that this batch of **L-Carnitine** conforms to the current USP .

Analysts **徐娜** Checker **高伟** Supervisor **王书海**