



Xi'an Green Spring Technology Co.,Ltd

Certificate Of Analysis

Product Name	L-Carnitine USP	Manufacture Date:	Aug. 13, 2024
Batch Number	2024081301Gs	Analysis Date:	Aug. 16, 2024
Batch Quantity	450KG	Retest Date	Aug. 12, 2026
Test	Specifications	Result	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°	-31.45°	USP
pH	5.5~9.5	6.86	USP
Loss on drying	≤0.5%	0.24%	USP
Assay	98.0%	99.44%	USP
Residue on Ignition	<0.1%	0.04%	USP
D-Carnitine	≤0.2%	0.15%	HPLC
Residual Solvents			
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
Conclusion:Conform with specification. Non-Irradiation ,GMO Free.			
Storage: Keep in cool & dry place. Keep away from strong light and heat.			
Packing: By 25kgs/Drum,inner by plastic bag.			
Shelf life: Two Years under the above condition, and in it's original package.			

Quality Assurance: Liang Yan

