

# Shaanxi greenyo biotech co., ltd

Add: Danfeng building, No.15 Gaoxin 4<sup>th</sup> Road, Xi'an  
[www.greenyobio.com](http://www.greenyobio.com) Tel: 0086-29-81772657

## CERTIFICATE OF ANALYSIS

Product name:	L-carnitine		
Batch Number:	LY20200305	Manu. Date:	2020-03-05
Quantity:	1000kgs	Expiration Date:	2022-03-04
Adopt Standards:	USP	Report Date	2020-03-07

TEST ITEM	Standards	RESULTS	Methods
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°	-31.41 °	USP
Ph	5.5-9.5	6.48	USP
Loss on drying	≤ 0.5%	0.36%	USP
Assay	97.0%~103.0%	99.50%	USP
Residue on ignition	≤0.1%	0.04%	USP
D-Carnitine	≤0.2%	0.04%	HPLC
<b>Residue Solvents:</b>			
Residue Ethanol	≤ 5000ppm	Complies	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	≤100cfr/g	10 cfu/g	USP
E.Coli	Negative	Negative	USP
Salmonella	Negative	Negative	USP
Conclusion	Confirmed with the standard		