

L-Carnitine

TECHNICAL DATA SHEET

L-Carnitine purified ingredient for professional ingredient formulation and manufacturing.

CAS No.	541-15-1
Source	L-Carnitine base
Physical form	Powder

Product Information

L-Carnitine base is a crystalline ingredient distinct from carnitine salts and supplied to its assay and identity specifications. This purified ingredient is supplied as powder.

The selected specification lists Assay (Titration): 98.0%~102.0%. For l-carnitine purchasing, identify the grade and analytical requirements used in the formulation. The product specification below provides the criteria for comparing material grades and checking the corresponding batch COA.

Specifications

Parameter	Specification
Appearance (Organoleptic)	White crystals powder
Identification (I R)	The sample spectrum is consistent with the Standard spectrum
Assay (Titration)	98.0%~102.0%
Specific rotation (USP43<7815>)	-29.0°~-32.0°
PH (USP43<791>)	6.5~8.5
Loss on drying (USP43<921>)	≤0.5%
Residue on ignition (USP43<281>)	≤0.1%
Chlorine (USP43<221>)	≤0.4%
potassium (USP43)	≤0.2%
Sodium (USP43)	≤0.1%
Heavy metals (USP43<231>)	≤ 10ppm
Residue Ethanol (USP43<467>)	≤5000ppm
Cyanide (CP2020<0806>)	Negative
Lead (USP43<251>)	≤0.5ppm
Arseni (USP43<211>)	≤1.0ppm
Mercury (USP43<261>)	≤0.1ppm
Cadmium (AAS)	≤1.0ppm
Total Plate Count (USP43<61>)	≤1000cfu/g
Yeast&Mold (USP43<61>)	≤100cfu/g
E. coli (USP43<61>)	Negative
Salmonella (USP43<61>)	Negative
S,aureus (USP43<61>)	Negative

Typical values. The COA of each batch prevails.

Typical Properties & Commercial Information

MOQ	500 kg
Packing	25 kg/bag
Lead time	Approximately 14 days
Free sample	500 g
Incoterms	FOB / CFR / CIF
Annual supply	On request

Free sample: up to 500 g. Courier cost payable or use your courier account.

Applications

Capsules and tablets: L-Carnitine powder is an ingredient option for suitable capsule fills and tablet blends.

Nutrition powder blends: Suitable nutrition powder formulations can incorporate the selected ingredient grade.

Formulation evaluation: Small-scale product evaluation allows development teams to compare the ingredient with other raw materials.

Packaging & Storage

Packaging	25 kg/bag
Shelf life	Two years, in unopened original packaging.
Container loading	Qty in 20' FCL: 8MTS(with pallets)

Certifications & Documents

KOSHER · HACCP · FSSC 22000 · HALAL · ISO 9001 · ISO 22000

COA for each batch, TDS and SDS.

Company Contact

Supplier: Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)

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The agreed purchase specification and the COA of each batch govern supply.