Certificate of Analysis

L-Carnitine Base

CAS No.	541-15-1	Code	BIOJLCA001
Batch No	10100120261005	Manufacture Date	Sep.26, 2026
Retest Date	Sep.25, 2028	Quantity	20Kgs

Testing Items	**Specifications**	**Results**
Appearance	White crystals or crystalline powder	White crystalline powder
Identification	IR	Positive
Appearance of solution	Clear and Colourless	Clear and Colourless
Specific rotation	-29° to -32°	-31.32°
pH	5.5~9.5	7.00
Loss on drying	Not more than 0.5%	0.32%
Assay	97.0%~103.0%	99.35%
Residue on ignition	Not more than 0.1%	0.05%
D-Carnitine	Not more than 0.2%	0.11%
Residual solvent	Ethanol: ≤5000ppm	Conforms
Heavy metals	Not more than 10ppm	Less than 10ppm
Arsenic	Not more than 1ppm	Less than 1ppm
Chloride	Not more than 0.4%	Less than 0.4%
Potassium	Not more than 0.2%	Less than 0.2%
Sodium	Not more than 0.1%	Less than 0.1%
Cyanide	Absent	Absent
Lead	Not more than 3ppm	Less than 3ppm
Mercury	Not more than 0.1ppm	Less than 0.1ppm
Cadmium	Not more than 1ppm	Less than 1ppm
Total plate count	Not more than 1000cfu/g	30cfu/g
Yeast & Mold	Not more than 100cfu/g	10cfu/g
E. Coli	Negative	Negative
Salmonella	Negative	Negative
Conclusion	This product conforms to USP standard	

***Storage condition: Store below 25℃, Protect from moisture and light.**