

PRODUCT INFORMATION

Product Name	L-Carnitine	Lot / Batch No.	PCL-2025-LCA-006
Compound	L-Carnitine (3-Hydroxy-4-trimethyla minobutyrate)	Manufacture Date	Q4 2025
Strength / Fill	500 mg / vial	Retest / Expiry	24 months from manufacture
Form	Lyophilized Powder	Storage Condition	Store at room temperature; protect from moisture

ANALYTICAL SUMMARY

Test Item	Specification	Result	Status
Appearance	White crystalline powder	Conforms	PASS
Identification	IR / HPLC Confirmed	Confirmed	PASS
Assay (Purity)	≥ 98.0% (dried basis)	99.5%	PASS
Optical Rotation	[α]D +29° to +32°	+30.4°	PASS
Water Content (KF)	≤ 1.0%	0.5%	PASS
pH (5% solution)	6.5 – 8.5	7.2	PASS
Heavy Metals	≤ 10 ppm	< 10 ppm	PASS
Related Substances	Total Impurities ≤ 1.0%	0.5%	PASS

METHODS / REFERENCE

Identification by infrared spectroscopy (IR) and RP-HPLC. Assay by potentiometric titration and HPLC. Optical rotation measured by polarimetry. Water content by Karl Fischer. Heavy metals by ICP-MS. pH measured in 5% aqueous solution.

QUALITY STATEMENT

Based on the source documentation reviewed, this lot of L-Carnitine appears to conform to the listed specifications for all parameters shown above.

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