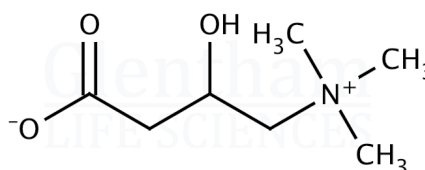


Certificate of Analysis

Product Name	L-Carnitine
Glentham Code	GV3498
CAS Number	541-15-1
EINECS	208-768-0
MDL Number	MFCD00038747
PubChem SID	310269393
Batch Number	289VMN

Molecular Weight	161.20
Molecular Formula	$C_7H_{15}NO_3$
Storage Temp.	+20°C



Property	Specification	Batch 289VMN
Physical Description	White crystalline powder	White crystalline powder
Identification	According to USP	Conforms
pH (5% in water)	5.5 - 9.5	7.0
Specific Optical Rotation	-29.0 - -32.0 ° (10% in water)	-30.8°
Chloride (Cl)	≤ 0.4%	Conforms
Potassium (K)	≤ 0.2%	Conforms
Sodium (Na)	≤ 0.1%	Conforms
Heavy Metals	≤ 20ppm	Conforms
Residue on Ignition	≤ 0.5%	< 0.1%
Water	≤ 4.0%	0.3%
Assay	97.0 - 103.0 % (anhydrous basis)	100.3%
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version	v1.0
Manufacture Date	2024-04-09
Re-Test Date	2032-08-29

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2025