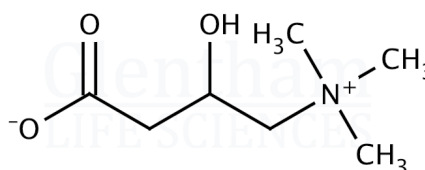


Certificate of Analysis

Product Name L-Carnitine
Glentham Code GV3498
CAS Number 541-15-1
EINECS 208-768-0
MDL Number MFCD00038747
PubChem SID 310269393
Batch Number 234DXB

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



Property	Specification	Batch 234DXB
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)	-31.2°
Chloride (Cl)	≤ 0.4%	≤ 0.4%
Potassium (K)	≤ 0.2%	≤ 0.2%
Sodium (Na)	≤ 0.1%	≤ 0.1%
Heavy Metals	≤ 20ppm	≤ 10ppm
Residue on Ignition	≤ 0.5%	0.05%
Water	≤ 4.0%	0.5%
Assay	97.0 - 103.0 % (anhydrous basis)	99.6%
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version v1.0
Manufacture Date 2021-10-29
Re-Test Date 2031-06-29

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.

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