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## Certificate of Analysis

Product Name
L-Carnitine hydrochloride

Glentham Code
GM4580
CAS Number
6645-46-1
EINECS
229-663-6
MDL Number
MFCD00066100
PubChem SID
310269396

Batch Number
276WVF

Molecular Weight 197.66

Molecular Formula  $C_7H_{15}NO_3 \cdot HCI$ 

Storage Temp. +20°C

-0	OH H <sub>3</sub> C	CH <sub>3</sub>

Property Specification Batch 276WVF Physical Description White powder White powder Identification (IR) To conform to standard Conforms Solubility (5% in water) Clear, colourless solution Clear, colourless solution -21.0 - -25.0 ° (c=1, water) -23.6° Specific Optical Rotation Chloride (CI) 17.0 - 18.5 % 18.1% Residue on Ignition ≤ 0.5% ≤ 0.1% Arsenic (As) ≤ 1ppm Conforms Lead (Pb) Conforms ≤ 3ppm Cadmium (Cd) ≤ 1ppm Conforms Mercury (Hg) ≤ 0.1ppm Conforms Conforms **Heavy Metals** ≤ 10ppm D-Carnitine ≤ 0.1% 0.0% 0.2% Loss on Drying ≤ 2.0% 98.0 - 102.0 % (dried basis) 99.2% Assay

Specification Version v1.1

Manufacture Date 2023-03-18

Re-Test Date 2031-06-05

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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