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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
 935PRO

O OH H<sub>3</sub>C CH<sub>3</sub>

CI

Property Specification Batch 935PRO Physical Description White powder White powder Identification (IR) To conform to standard Conforms Solubility (5% in water) Clear, colourless solution Conforms -21.0 - -25.0 ° (c=1, water) -23.7° Specific Optical Rotation Chloride (CI) 17.0 - 18.5 % 17.8% Residue on Ignition ≤ 0.5% ≤ 0.1% Arsenic (As) ≤ 1ppm Conforms Lead (Pb) Conforms ≤ 3ppm Cadmium (Cd) ≤ 1ppm Conforms Mercury (Hg) ≤ 0.1ppm Conforms **Heavy Metals** ≤ 10ppm Conforms **D-Carnitine** ≤ 0.1% Conforms 0.5% Loss on Drying ≤ 2.0% 98.0 - 102.0 % (dried basis) 99.1% Assay

Specification Version v1.1

Manufacture Date 2017-11-02

Re-Test Date 2031-04-08

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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