

Glentham Life Sciences Ltd Unit 5 Leafield Way Corsham SN13 9SW United Kingdom

t: +44 (0) 1225 667 798 f: +44 (0) 2033 978 909 e: info@glentham.com w: www.glentham.com

## **Product Specification**

Product Name L-Cystine, non-animal origin, Ph. Eur.

grade

 Glentham Code
 GM3190

 CAS Number
 56-89-3

 EINECS
 200-296-3

 MDL Number
 MFCD00064228

 $\begin{array}{lll} \mbox{Molecular Weight} & 240.30 \\ \mbox{Molecular Formula} & \mbox{C}_6\mbox{H}_{12}\mbox{N}_2\mbox{O}_4\mbox{S}_2 \\ \mbox{Storage Temp.} & +20\mbox{°C} \end{array}$ 

HO S S NH<sub>2</sub>

Property Specification Physical Description White or almost white crystalline powder Identification To pass tests A, B Clear, colourless solution Appearance of Solution Specific Optical Rotation ([α]20/D) -224 - -218 ° (c=2, 1M HCl, dried substance) Ammonium ≤ 200ppm Chloride ≤ 200ppm Sulphate ≤ 300ppm ≤ 0.1% Residue on Ignition Arsenic ≤ 1ppm Lead ≤ 5ppm Iron ≤ 10ppm Heavy Metals ≤ 10ppm Loss on Drying ≤ 0.2% ≤ 0.2% (for each impurity) Ninhydrin-positive substances Ninhydrin-positive substances ≤ 0.5% (total) Assay (Titration) 98.5 - 101.0 % (dried substance) Ph. Eur. Pharmacopoeia Specification(s)

Specification Version - v1.0

Date Created - 2024-06-19

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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