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## Certificate of Analysis

Product Name L-Cysteine, 99%, non-animal origin
Glentham Code GM8797
CAS Number 52-90-4

 CAS Number
 52-90-4

 EINECS
 200-158-2

 MDL Number
 MFCD00064306

 Additional CAS
 345909-32-2 (·xH2O)

Batch Number 372XGS

O H<sub>2</sub>N IIIIII SH

Conforms

Property Specification Batch 372XGS Physical Description White to almost white powder or crystals White crystalline powder Solubility (2.5% in water) Clear, colourless solution Clear, colourless solution Solubility (10% in 2M HCI) Clear, colourless solution Clear, colourless solution pH (2.5% in water) Specific Optical Rotation ([α]20/D) +8.3 - +9.5 ° (c=8, 1M HCI) +8.5° ≤ 0.04% Chloride (CI) ≤ 0.05% Sulphate (SO4) ≤ 0.03% ≤ 0.02% ≤ 0.02% Ammonium (NH4) Conforms Iron (Fe) ≤ 10ppm Conforms Heavy Metals (as Pb) ≤ 10ppm Conforms 0.05% Residue on Ignition ≤ 0.1% Loss on Drying ≤ 0.5% (105°C, 3h) 0.48% 99.2% Assay (Titration) 98.5 - 101.0 %

Specification Version v1.0

Manufacture Date 2023-06-06

Re-Test Date 2031-06-30

Origin

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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Vegetal fermentation

Page 1 of 1 Printed: 2024-06-30 15:27:26