

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

Certificate of Analysis

Product Name
L-Cysteine, 99%, non-animal origin
Glentham Code
GM8797
CAS Number
52-90-4
EINECS
200-158-2
MDL Number
MFCD00064306
Additional CAS
345909-32-2 (·xH2O)

Batch Number 372XGS

Molecular Weight 121.16

O H₂N IIIIII SH

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)	4.5 - 5.5	5.3
Specific Optical Rotation ([α]20/D)	+8.3 - +9.5 ° (c=8, 1M HCl)	+8.5°
Chloride (CI)	≤ 0.05%	≤ 0.04%
Sulphate (SO4)	≤ 0.03%	≤ 0.02%
Ammonium (NH4)	≤ 0.02%	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Heavy Metals (as Pb)	≤ 10ppm	Conforms
Residue on Ignition	≤ 0.1%	0.05%
Loss on Drying	≤ 0.5% (105°C, 3h)	0.48%
Assay (Titration)	98.5 - 101.0 %	99.2%
Origin	Vegetal fermentation	Conforms

Specification Version v1.0

Manufacture Date 2023-06-06

Re-Test Date 2031-06-30

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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