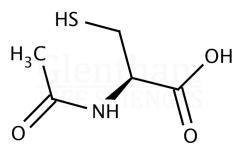


Glentham Life Sciences Ltd Unit 5 Leafield Way Corsham SN13 9SW United Kingdom

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 N-Acetyl-L-cysteine Glentham Code GM8803 **CAS Number** 616-91-1 **EINECS** 210-498-3 MDL Number MFCD00004880 PubChem SID 310265502 **Batch Number** 652GOQ Molecular Weight 163.20 $C_5H_9NO_3S$ Molecular Formula Storage Temp. +20°C



Property	Specification	Batch 652GOQ
Physical Description	White crystalline powder or colourless crystals Yellow crystalline powder	
Identification	According to EP	Conforms
Solubility (5% in water)	Clear, colourless solution	Conforms
Specific Optical Rotation	+21.0 - +27.0 °	+22.9°
рН	2.0 - 2.8	2.2
Related Substances	Any Specified Impurity: ≤ 0.5%	≤ 0.1%
	Total Impurities: ≤ 0.5%	0.1%
Heavy Metals	≤ 10ppm	Conforms
Zinc (Zn)	≤ 10ppm	Conforms
Loss on Drying	≤ 1.0%	≤ 0.1%
Sulphated Ash	≤ 0.2%	≤ 0.1%
Lead (Pb)	≤ 3ppm	Conforms
Arsenic (As)	≤ 1ppm	Conforms
Mercury (Hg)	≤ 0.1ppm	Conforms
Cadmium (Cd)	≤ 1ppm	Conforms
Assay	99.0 - 101.0 % (dried basis)	100.3%
Pharmacopoeia Specification(s)	EP	Conforms

Specification Version v1.1

Manufacture Date 2022-06-23

Re-Test Date 2033-04-08

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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Page 1 of 1 Printed: 2025-05-02 10:49:03