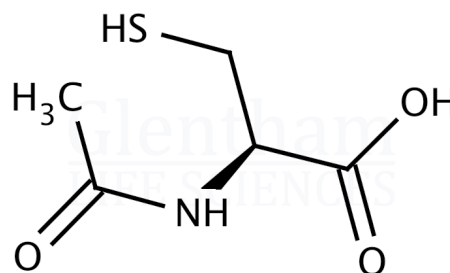


Certificate of Analysis

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 928ZLX

Molecular Weight 163.20
Molecular Formula $C_5H_9NO_3S$
Storage Temp. +20°C



Property	Specification	Batch 928ZLX
Physical Description	White crystalline powder or colourless crystals	White crystalline powder
Identification	According to EP	Conforms
Solubility (5% in water)	Clear, colourless solution	Clear, colourless solution
Specific Optical Rotation	21.0 - 27.0 °	+22.9°
pH	2.0 - 2.8	2.2
Related Substances	Any Specified Impurity: ≤ 0.5%	Conforms
	Total Impurities: ≤ 0.5%	0.1%
Heavy Metals	≤ 10ppm	Conforms
Zinc (Zn)	≤ 10ppm	Conforms
Loss on Drying	≤ 1.0%	0.07%
Sulphated Ash	≤ 0.2%	0.06%
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 2031-02-15

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.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2024