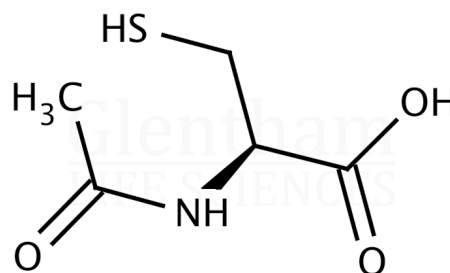


Certificate of Analysis

Product Name	N-Acetyl-L-cysteine, USP grade
Glentham Code	GE7278
CAS Number	616-91-1
EINECS	210-498-3
MDL Number	MFCD00004880
Batch Number	928FLA
Molecular Weight	163.20
Molecular Formula	C ₅ H ₉ NO ₃ S
Storage Temp.	+20°C



Property	Specification	Batch 928FLA
Physical Description	White to almost white crystalline powder	White crystalline powder
Identification (IR)	To conform to standard	Conforms
Specific Optical Rotation ([α] _D ²⁰)	+21.0 - +27.0 ° (c=1.25, pH 7.0 buffer)	+22.9°
pH (1% in water)	2.0 - 2.8	2.2
Loss on Drying	≤ 1.0% (70°C, vac., 4h)	0.1%
Residue on Ignition	≤ 0.5%	0.06%
Heavy Metals	≤ 10ppm	Conforms
Assay (HPLC)	98.0 - 102.0 % (dried basis)	100.3%
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version	v1.0
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.

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