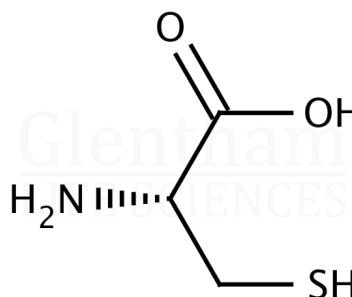


Certificate of Analysis

Product Name	L-Cysteine
Glentham Code	GM3760
CAS Number	52-90-4
EINECS	200-158-2
MDL Number	MFCD00064306
Additional CAS	345909-32-2 ($\cdot xH_2O$)
PubChem SID	310270753
Batch Number	706ZSM

Molecular Weight	121.16
Molecular Formula	$C_3H_7NO_2S$
Storage Temp.	+20°C



Property	Specification	Batch 706ZSM
Physical Description	White to almost white powder or crystals	White crystals
Solubility (2.5% in water)	Clear, colourless solution	Clear, colourless solution
pH (2.5% in water)	4.0 - 6.0	5.3
Specific Optical Rotation ($[\alpha]_{20/D}$)	+8.0 - +9.5 ° (c=8, 1M HCl)	8.5°
Loss on Drying	≤ 1.0% (80°C, vac., 1h)	0.5%
Assay (Titration)	≥ 98.0%	99.2%

Specification Version	v1.2
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.

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