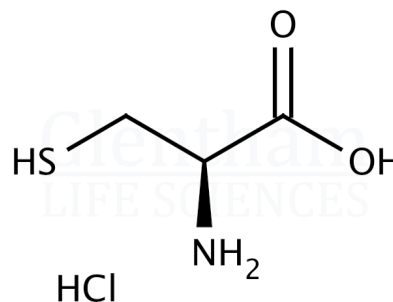


Certificate of Analysis

Product Name	L-Cysteine hydrochloride, anhydrous
Glentham Code	GM1539
CAS Number	52-89-1
EINECS	200-157-7
MDL Number	MFCD00064553
Additional CAS	345909-32-2 ($\cdot xH_2O$)
PubChem SID	310270756
Batch Number	837EVH

Molecular Weight	157.62
Molecular Formula	$C_3H_7NO_2S \cdot HCl$
Storage Temp.	+20°C



Property	Specification	Batch 837EVH
Physical Description	White crystalline powder or crystals	White crystalline powder
Specific Optical Rotation ($[\alpha]_{20/D}$)	+5.6 - +8.9 ° (c=8, 6M HCl)	+6.0°
Residue on Ignition	≤ 0.1%	< 0.1%
Loss on Drying	≤ 1.0%	0.5%
Iron (Fe)	≤ 15ppm	< 10ppm
Lead (Pb)	≤ 3ppm	< 3ppm
Arsenic (As)	≤ 1ppm	< 1ppm
Mercury (Hg)	≤ 0.1ppm	< 0.1ppm
Cadmium (Cd)	≤ 1ppm	< 1ppm
Assay	98.0 - 102.0 %	100.2%

Specification Version	v1.0
Manufacture Date	2022-10-26
Re-Test Date	2029-08-23

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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