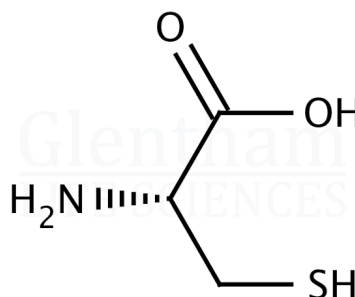


## Product Specification

Product Name	L-Cysteine, 99%, non-animal origin
Glentham Code	GM8797
CAS Number	52-90-4
EINECS	200-158-2
MDL Number	MFCD00064306
Additional CAS	345909-32-2 ( $\cdot xH_2O$ )
Molecular Weight	121.16
Molecular Formula	$C_3H_7NO_2S$
Storage Temp.	+4°C



Property	Specification
Physical Description	White to almost white powder or crystals
Solubility (2.5% in water)	Clear, colourless solution
Solubility (10% in 2M HCl)	Clear, colourless solution
pH (2.5% in water)	4.5 - 5.5
Specific Optical Rotation ( $[\alpha]_{20/D}$ )	+8.3 - +9.5 ° (c=8, 1M HCl)
Chloride (Cl)	$\leq 0.05\%$
Sulphate (SO <sub>4</sub> )	$\leq 0.03\%$
Ammonium (NH <sub>4</sub> )	$\leq 0.02\%$
Iron (Fe)	$\leq 10\text{ppm}$
Heavy Metals (as Pb)	$\leq 10\text{ppm}$
Residue on Ignition	$\leq 0.1\%$
Loss on Drying	$\leq 0.5\%$ (105°C, 3h)
Assay (Titration)	98.5 - 101.0 %
Origin	Vegetal fermentation

Specification Version	-	v1.0
Date Created	-	2021-04-15

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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