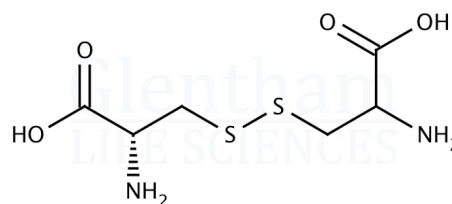


Certificate of Analysis

Product Name	L-Cystine, non-animal origin
Glentham Code	GM2911
CAS Number	56-89-3
EINECS	200-296-3
MDL Number	MFCD00064228
Batch Number	297KKE
Molecular Weight	240.30
Molecular Formula	$C_6H_{12}N_2O_4S_2$
Storage Temp.	+20°C



Property	Specification	Batch 297KKE
Physical Description	White or almost white crystalline powder	White crystalline powder
Identification	To conform to standard	Conforms
Solubility (5% in 2M HCl)	Clear, colourless solution	Clear, colourless solution
Specific Optical Rotation ($[\alpha]_{20/D}$)	-225.0 - -215.0 °	-223.0 °
Chloride (Cl)	≤ 0.02%	Conforms
Ammonium (NH ₄)	≤ 0.02%	Conforms
Sulphate (SO ₄)	≤ 0.02%	Conforms
Arsenic (As)	≤ 1ppm	0.5ppm
Heavy Metals	≤ 10ppm	Conforms
Iron (Fe)	≤ 20ppm	≤ 10ppm
Residue on Ignition	≤ 0.1%	Conforms
Loss on Drying	≤ 1.0%	0.05%
Assay	98.5 - 101.5 %	99.1%
Origin	non-animal	Conforms

Specification Version	v1.0
Manufacture Date	2022-06-07
Re-Test Date	2030-09-23

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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