



CERTIFICATE OF ANALYSIS

PRODUCT NAME : L-CYSTEINE HYDROCHLORIDE (MONOHYDRATE)

CAS No : 7048-04-6

Mol. Formula : C₃H₇NO₂S.HCl.H₂O

Mol. WT : 175.64

Date of analysis : 13/09/21

Product code : 14040

Batch No. : MCR-24157

Mfd. : Sept. 2021

Exp. : Aug. 2026

S.R	Test	Specification	Observation
1	Description	White to Colourless crystalline powder.	White crystalline powder.
2	Assay (On dried basis)	99% w/w min	99.32%
3	Specific rotation $[\alpha]^{20}_D$ C = 2, 5 N HCl	+ 5.5 to + 6.5°	+ 6.18°
4	Loss on drying at 130°C	9.0-11.5%	10.20%
5	Sulphated ash	0.1% max	0.008%
6	Sulphate (SO ₄)	0.01% max	<0.01%
7	Iron (Fe)	0.001% max	<0.001%
8	Heavy metals (Pb)	0.001% max	<0.001%

REMARK: THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

[Tested By]

[QC Incharge]

**HEAD-QUALITY ASSUARANCE
(G.G.Salian)**

Note: Computer generated image requires no sign.

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