



CERTIFICATE OF ANALYSIS

PRODUCT NAME : L-CYSTEINE HYDROCHLORIDE (MONOHYDRATE)

CAS No : 7048-04-6

Mol. Formula : $C_3H_7NO_2S.HCl.H_2O$

Mol. WT : 175.64

Date of analysis : 09/01/23

Product code : 14040

Batch No. : MCR-27429

Mfd. : Jan. 2023

Exp. : Dec. 2027

S.R	Test	Specification	Observation
1	Description	White to Colourless crystalline powder.	White crystalline powder.
2	Assay (On dried basis)	99% w/w min	99.92%
3	Specific rotation $[\alpha]^{20}_D$ C = 2, 5 N HCl	+ 5.5 to + 6.5°	+ 5.99°
4	Loss on drying at 130°C	9.0-11.5%	9.23%
5	Sulphated ash	0.1% max	0.05%
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]

**CHEMIST
(Priti)**

[QC Incharge]

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

Note: Computer generated image requires no sign.

**MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA)
Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : info@molychem.net
Works: Plot No.B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co.,
Kulgaon, Badlapur (E), Dist.-Thane-421 503**