



CERTIFICATE OF ANALYSIS

PRODUCT NAME : L-CYSTEINE HYDROCHLORIDE (MONOHYDRATE)

CAS No	: 7048-04-6	Product code	: 14040
Mol. Formula	: C₃H₇NO₂S.HCl.H₂O	Batch No.	: MCR-30550
Mol. WT	: 175.64	Mfd.	: March 2024
Date of analysis	: 07/03/24	Exp.	: Feb. 2029

S.R	Test	Specification	Observation
1	Description	White to Colourless crystalline powder.	Colourless crystalline powder.
2	Assay (On dried basis)	99% w/w min	99.26%
3	Specific rotation $[\alpha]^{20}_D$ C = 2, 5 N HCl	+ 5.5 to + 6.5 ⁰	+ 5.76 ⁰
4	Loss on drying at 130°C	9.0 - 11.5%	9.02%
5	Sulphated ash	0.1% max	0.01%
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]

**CHEMIST
(Sonu)**

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

Note: Computer generated image requires no sign.

MOLYCHEM H.Q. : Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)

Tel. : +91 22 4066 8111 • Email: info@molychem.net • Web: www.molychem.net

Reg. Office : 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai - 400 002 (INDIA)

Works : Unit I - Plot No. B/9, Unit II - Plot No. B/11, Badlapur M.I.D.C., Opp. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

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