

CERTIFICATE OF ANALYSIS

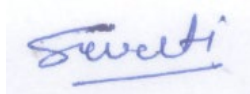
PRODUCT NAME : L-CYSTEINE HYDROCHLORIDE (MONOHYDRATE)

CAS No	: 7048-04-6	Product code	: 14040
Mol. Formula	: C ₃ H ₇ NO ₂ S.HCl.H ₂ O	Batch No.	: MCR-31593
Mol. WT	: 175.64	Mfd.	: July 2024
Date of analysis	: 30/07/24	Exp.	: June 2029

S.R	Test	Specification	Observation
1	Description	White to Colourless crystalline powder.	White crystalline powder.
2	Assay (On dried basis)	99% w/w min	99.58%
3	Specific rotation $[\alpha]^{20}_D$ C = 2, 5 N HCl	+ 5.5 to + 6.5 ⁰	+ 6.0 ⁰
4	Loss on drying at 130°C	9.0 - 11.5%	10.18%
5	Sulphated ash	0.1% max	0.06%
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
(Swati)**

[QC Incharge]



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

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