



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-18787
Mol. WT	: 175.64	Mfd.	: June 2019
Date of analysis	: 05/06/19	Exp.	: May 2024

S.R	Test	Specification	Observation
1	Description	White to Colourless crystalline powder.	White crystalline powder.
2	Assay (On dried basis)	99% w/w min	99.94%
3	Specific rotation $[\alpha]^{20}_D$ C = 2, 5 N HCl	+ 5.5 to + 6.5 ⁰	+ 6.1 ⁰
4	Loss on drying at 130°C	9.0-11.5%	9.91%
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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