

CERTIFICATE OF ANALYSIS

Date: 14/01/18

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-11012-01
Mol. WT	: 175.64	Mfd.	: Jan. 2018
Exp.	: Dec. 2022		

S. R	Test	Specification	Observation
1	Assay (On dried basis)	99 % min	99.42%
2	Sp. rotation [α] C = 2, 5N HCl	+ 5.5 to + 6.5 ⁰	+6.5 ⁰
3	Loss on drying at 130°C	9.0 – 11.5	11.24
4	Sulphated ash	0.1% max	0.06%
5	Sulphate (SO ₄)	0.01% max	< 0.01%
6	Iron (Fe)	0.001% max	< 0.001%
7	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.