



CERTIFICATE OF ANALYSIS

Date: 24/01/17

PRODUCT NAME : L-CYSTEINE HYDROCHLORIDE (MONOHYDRATE)

CAS No : 7048-04-6

Product code : 14040

Mol. Formula : $C_3H_7NO_2S.HCl.H_2O$

Batch No : MCR-13058

Mol. WT : 175.64

Mfd. : Jan. 2017

Exp. : Dec. 2021

S.R	Test	Specification	Observation
1	Assay (On dried basis)	99% w/w min	99.91%
2	Specific rotation $[\mu]^{20}_D$ C = 2, 5 N HCl	+ 5.5 to + 6.5 ⁰	+ 6.0 ⁰
3	Loss on drying at 130°C	9.0-11.5%	10.22%
4	Sulphated ash	0.1% max	0.04%
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.

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