



CERTIFICATE OF ANALYSIS

Date: 07/09/14

PRODUCT NAME : L-CYSTEINE HYDROCHLORIDE (MONOHYDRATE)

CAS No : 7048- 04- 6
Mol. Formula : $C_3H_7NO_2S.HCl.H_2O$
Mol. WT : 175.64

Product code : 14040
Batch No : MCR- 8622
Mfd. : Sept. 2014

S. R	Test	Specification	Observation
1	Assay(on dried basis)	99%w/w min	99.74%w/w
2	Sp. rotation $[\alpha]$ C = 2, 5 N HCl	+ 5.5 to + 6.5 ⁰	+ 6.4 ⁰
3	Loss on drying at 130°C	9.0 – 11.5	9.79
4	Sulphated ash	0.1% max	0.01%
5	Sulphate (SO ₄)	0.01% max	< 0.01%
6	Iron (Fe)	0.001% max	< 0.001%
7	Heavy metals (as 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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