



CERTIFICATE OF ANALYSIS

Date: 24/01/18

PRODUCT NAME : L-GLUTAMINE FOR BIOCHEMISTRY

CAS No : 56- 85- 9
Mol. Formula : $C_5H_{10}N_2O_3$
Mol. WT : 146.15
Exp. : Dec. 2022

Product code : 23400
Batch No : MCR-12021-01
Mfd. : Jan. 2018

S. R	Test	Specification	Observation
1	Assay(HClO ₄ titration)	99% min.	99.40%
2	Specifc rotation $[\alpha]^{20}_D$ (C=2,1 N HCl)	+31.5 ⁰ to +32.5 ⁰	+31.8 ⁰
3	Heavy metals (as Pb)	0.001% max	<0.001%
4	Iron (Fe)	0.001% max	<0.001%
5	Loss on drying at 110 ⁰ C	0.5% max	0.2%

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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