



CERTIFICATE OF ANALYSIS

PRODUCT NAME : L-GLUTAMINE FOR BIOCHEMISTRY

CAS No : 56- 85- 9
Mol. Formula : $C_5H_{10}N_2O_3$
Mol. WT : 146.15
Date of Analysis : 22/01/20

Product code : 23400
Batch No : MCR-20655
Mfd. : Jan. 2020
Exp. : Dec. 2024

S. R	Test	Specification	Observation
1	Description	White powder or crystalline powder	White powder
2	Assay (HClO₄ titration)	99% min.	99.76%
3	Specifc rotation $[\alpha]^{20}_D$ (C=2,1 N HCl)	+31.5 ⁰ to +32.5 ⁰	+31.99 ⁰
4	Heavy metals (as Pb)	0.001% max	<0.001%
5	Iron (Fe)	0.001% max	<0.001%
3	Loss on drying at 110⁰C	0.5% max	0.39%

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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