



## CERTIFICATE OF ANALYSIS

Date: 05/06/18

PRODUCT NAME : L-SERINE FOR BIOCHEMISTRY

CAS No : 56- 45- 1  
Mol. Formula : C<sub>3</sub>H<sub>7</sub>NO<sub>3</sub>  
Mol. WT : 105.09  
Exp. : May 2023

Product code : 17820  
Batch No : MCR-16270  
Mfd. : June 2018

S. R	Test	Specification	Observation
1	Description	White to off white crystalline powder.	White crystalline powder.
2	Assay	99% min	99.5%
3	Specific rotation[ ] <sup>20</sup> <sub>D</sub> (C=2, 5N HCl)	+12 <sup>0</sup> to +16 <sup>0</sup>	+13.62 <sup>0</sup>
4	Sulphated ash	0.1% max.	0.005%
5	Iron(Fe)	0.001% max.	<0.001%
6	Heavy metals (as Pb)	0.001% max.	<0.001%
7	Loss on drying at 105 <sup>0</sup> C	0.5% max.	0.06%

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.