



## CERTIFICATE OF ANALYSIS

Date: 21/07/18

PRODUCT NAME : L-VALINE FOR BIOCHEMISTRY

CAS No : 72-18-4  
Mol. Formula :  $C_5H_{11}NO_2$   
Mol. WT : 117.15  
Exp. : June 2023

Product code : 54320  
Batch No : MCR-16559  
Mfd. : July 2018

S.R	Test	Specification	Observation
1	Description	White powder	White powder
2	Assay	99 % w/w min	99.52% w/w
3	Specific rotation $[\alpha]$ C= 2, 5 N HCl	+ 25.0 to +28.5 <sup>0</sup>	+ 27.5 <sup>0</sup>
4	Heavy metals (as Pb)	0.001% max	< 0.001%
5	Loss on drying at 105°C	0.5% max	0.33%
6	Chloride (Cl)	0.01% max	< 0.01%
7	Sulphate (SO <sub>4</sub> )	0.01% max	< 0.01%
8	Iron (Fe)	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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