



## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : L-VALINE FOR BIOCHEMISTRY**

<b>CAS No</b>	<b>: 72-18-4</b>	<b>Product code</b>	<b>: 54320</b>
<b>Mol. Formula</b>	<b>: C<sub>5</sub>H<sub>11</sub>NO<sub>2</sub></b>	<b>Batch No</b>	<b>: MCR-23939</b>
<b>Mol. WT</b>	<b>: 117.15</b>	<b>Mfd.</b>	<b>: Aug. 2021</b>
<b>Date of analysis</b>	<b>: 08/08/21</b>	<b>Exp.</b>	<b>: July 2026</b>

S.R	Test	Specification	Observation
1	<b>Description</b>	White powder	White powder.
2	<b>Assay</b>	99 % w/w min	99.66% w/w
3	<b>Specific rotation [<math>\alpha</math>] C= 2, 5 N HCl</b>	+ 25.0 to +28.5 <sup>0</sup>	+ 27.5 <sup>0</sup>
4	<b>Heavy metals (as Pb)</b>	0.001% max	< 0.001%
5	<b>Loss on drying at 105°C</b>	0.5% max	0.38%
6	<b>Chloride (Cl)</b>	0.01% max	< 0.01%
7	<b>Sulphate (SO<sub>4</sub>)</b>	0.01% max	< 0.01%
8	<b>Iron (Fe)</b>	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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