



## CERTIFICATE OF ANALYSIS

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

<b>CAS No</b>	<b>: 73-32-5</b>	<b>Product code</b>	<b>: 15120</b>
<b>Mol. Formula</b>	<b>: C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub></b>	<b>Batch No</b>	<b>: MCR-20355</b>
<b>Mol. WT</b>	<b>: 131.18</b>	<b>Mfd.</b>	<b>: Dec. 2019</b>
<b>Date of analysis</b>	<b>: 14/12/19</b>	<b>Exp.</b>	<b>: Nov. 2024</b>

S. R	Test	Specification	Observation
1	Description	White crystalline powder.	White crystalline powder.
2	Assay	99% w/w min	99.88% w/w
3	Specific rotation $[\alpha]_D^{20}$ C = 2, 5 N HCl	+ 36 to + 37 <sup>0</sup>	+ 36.28 <sup>0</sup>
4	Loss on drying at 110°C	0.5% max	0.21%
5	Chloride (Cl)	0.01% max	< 0.01%
6	Sulphate (SO <sub>4</sub> )	0.01% max	< 0.01%
7	Iron (Fe)	0.001% max	< 0.001%
8	Heavy metals (Pb)	0.001% max	< 0.001%
9	Ammonium (NH <sub>4</sub> )	0.01% max	< 0.01%

**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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