



## CERTIFICATE OF ANALYSIS

Date: 13/05/17

PRODUCT NAME : L-ISOLEUCINE FOR BIOCHEMISTRY

CAS No : 73-32-5  
Mol. Formula : C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub>  
Mol. WT : 131.18  
Exp. : April 2022

Product code : 15120  
Batch No : MCR-13733  
Mfd. : May 2017

S.R	Test	Specification	Observation
1	Assay	99% w/w min	99.12% w/w
2	Specific rotation [ $\alpha$ ] <sub>D</sub> <sup>20</sup> C = 2, 5 N HCl	+ 36 to + 37 <sup>0</sup>	+ 36.2 <sup>0</sup>
3	Loss on drying at 110°C	0.5% max	0.14%
4	Chloride (Cl)	0.01% max	< 0.01%
5	Sulphate (SO <sub>4</sub> )	0.01% max	< 0.01%
6	Iron (Fe)	0.001% max	< 0.001%
7	Heavy metals (Pb)	0.001% max	< 0.001%
8	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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