

## CERTIFICATE OF ANALYSIS

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

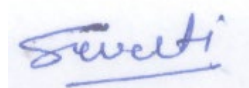
**CAS No** : 73-32-5  
**Mol. Formula** : C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub>  
**Mol. WT** : 131.18  
**Date of analysis** : 24/07/24

**Product code** : 15120  
**Batch No.** : MCR-31553  
**Mfd.** : July 2024  
**Exp.** : June 2029

| S.R | Test                                                  | Specification                                       | Observation               |
|-----|-------------------------------------------------------|-----------------------------------------------------|---------------------------|
| 1   | Description                                           | White to almost white crystalline powder or powder. | White crystalline powder. |
| 2   | Assay                                                 | 99% w/w min                                         | 99.84% w/w                |
| 3   | Specific rotation $[\alpha]^{20}_D$<br>C = 2, 5 N HCl | + 36 to + 37°                                       | + 36.49°                  |
| 4   | Loss on drying at 110°C                               | 0.5% max                                            | 0.23%                     |
| 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]**



**CHEMIST**  
(Swati)

**[QC Incharge]**



**HEAD-QUALITY ASSURANCE**  
(G.G.Salian)

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