



## **CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	:	<b>L-ISOLEUCINE 99% FOR BIOCHEMISTRY</b>
<b>Cas No.</b>	:	<b>73-32-5</b>
<b>Code No.</b>	:	<b>01538</b>
<b>Batch No.</b>	:	<b>PC10241816</b>
<b>Mfg. Date</b>	:	<b>OCT-2024</b>
<b>Date Of Analysis</b>	:	<b>15/10/2024</b>
<b>Retest Date</b>	:	<b>SEP-2029</b>

<b>TEST</b>	<b>SPECIFICATION</b>	<b>RESULT</b>
Appearance	White powder	White powder
Assay (by HClO <sub>4</sub> titration)	Min 99%	99.21%
Specific optical rotation ([α] <sub>D</sub> <sup>20</sup> ; 40 g/L in 250 g/L HCl; on dried substance)	+40 to +43°	+41.22°
Specific optical rotation ([α] <sub>D</sub> <sup>25</sup> ; 40 g/L in 6M HCl; on dried substance)	+38.9 to +41.8°	+39.17°
pH (1% solution in CO <sub>2</sub> free water)	5.5 - 7.0	6.48
Chloride (Cl)	Max 0.02%	0.003%
Sulphate (SO <sub>4</sub> )	Max 0.03%	0.007%
Iron (Fe)	Max 0.001%	0.00025%
Heavy metal (as Pb)	Max 0.001%	0.0002%
Ammonium (NH <sub>4</sub> )	Max 0.02%	0.0037%
Foreign amino acids	Max 0.5%	0.07%
Other ninhydrin positive substances (as glycine)	Max 0.1%	0.05%

REMARK : This product complies as per the specifications of **Pallav Chemicals & Solvents Pvt. Ltd.**

**This is an electronically generated Certificate and is valid without a signature.**

For Issues relating to Quality you may send us a mail on [sales@pallavchemicals.com](mailto:sales@pallavchemicals.com) or call on **022 4928 4000**

Website: [www.pallavchemicals.com](http://www.pallavchemicals.com)