



CERTIFICATE OF ANALYSIS

Product Name	:	L-ISOLEUCINE 99% FOR BIOCHEMISTRY
Cas No.	:	73-32-5
Code No.	:	01538
Batch No.	:	PC12211256
Mfg. Date	:	DEC-2021
Date Of Analysis	:	21/12/2021
Retest Date	:	NOV-2026

TEST	SPECIFICATION	RESULT
Appearance	White powder	White powder
Assay (by HClO ₄ titration)	Min 99%	99.49%
Specific optical rotation ([α] _D ²⁰ ; 40 g/L in 250 g/L HCl; on dried substance)	+40 to +43 ⁰	+41 ⁰
Specific optical rotation ([α] _D ²⁵ ; 40 g/L in 6M HCl; on dried substance)	+38.9 to +41.8 ⁰	+39.2 ⁰
pH (1% solution in CO ₂ free water)	5.5 - 7.0	6.23
Chloride (Cl)	Max 0.02%	0.001%
Sulphate (SO ₄)	Max 0.03%	0.006%
Iron (Fe)	Max 0.001%	0.0004%
Heavy metal (as Pb)	Max 0.001%	0.0003%
Ammonium (NH ₄)	Max 0.02%	0.0008%
Foreign amino acids	Max 0.5%	0.0005%
Other ninhydrin positive substances (as glycine)	Max 0.1%	0.002%

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 or call on **022 4928 4000**

Website: www.pallavchemicals.com