



CERTIFICATE OF ANALYSIS

Product Name	:	L-ISOLEUCINE 99% FOR BIOCHEMISTRY
Code No.	:	01538
Batch No.	:	PC11221914
Mfg. Date	:	NOV-2022
Date Of Analysis	:	17/11/2022
Retest Date	:	OCT-2027

TEST	SPECIFICATION	RESULT
Appearance	White powder	White powder
Assay (by HClO ₄ titration)	Min 99.0%	99.97%
Specific optical rotation ([α] _D ²⁰ ; 40 g/L in 250 g/L HCl ; on dried substance)	+40 to +43°	+41.5°
Specific optical rotation ([α] _D ²⁵ ; 40 g/L in 6M HCl; on dried substance)	+38.9 to +41.8°	+41.5°
pH (1% solution in CO ₂ free water)	5.5 - 7.0	5.89
Chloride (Cl)	Max 0.02%	Less than 0.02%
Sulphate (SO ₄)	Max 0.03%	Less than 0.03%
Iron (Fe)	Max 0.001%	Less than 0.001%
Heavy metal (as Pb)	Max 0.001%	Less than 0.001%
Ammonium (NH ₄)	Max 0.02%	Less than 0.02%
Foreign amino acids	Max 0.5%	Less than 0.5%
Other ninhydrin positive substances (as glycine)	Max 0.1%	Less than 0.1%

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