



BIO-CHEM CHEMICALS

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CERTIFICATE OF ANALYSIS

Product Name	L-ISOLEUCINE 99% FOR BIOCHEMISTRY
Cas No.	73-32-5
Code No.	B-01538
Batch No.	BC07231060
Mfg.Date	JULY-2024
Date of Analysis	26/07/2024
Retest Date	JUNE-2029

TEST	SPECIFICATION	RESULT
Appearance	White powder	White powder
Assay (by HClO ₄ titration)	Min 99%	99.65%
Specific optical rotation ([α] _D ²⁰ ; 40 g/L in 250 g/L HCl ; on dried substance)	+40 to +430	+41°
Specific optical rotation ([α] _D ²⁵ ; 40 g/L in 6M HCl; on dried substance)	+38.9 to +41.80	+39.2°
pH (1% solution in CO ₂ free water)	5.5 - 7.0	5.80
Chloride (Cl)	Max 0.02%	0.003%
Sulphate (SO ₄)	Max 0.03%	0.0013%
Iron (Fe)	Max 0.001%	0.0005%
Heavy metal (as Pb)	Max 0.001%	0.0006%
Ammonium (NH ₄)	Max 0.02%	0.008%
Foreign amino acids	Max 0.02%	0.11%
Other ninhydrin positive substances (as glycine)	Max 0.1%	0.03%

REMARK: This product complies as per the specifications of **BIO-CHEM CHEMICALS**.

This is an electronically generated certificate and is valid without a signature.

For Issues relating to quality you may send us a mail on info@biofinechemicals.com or call on
+91-7404210730 Website- www.biofinechemicals.com