



BIO-CHEM CHEMICALS

Office Address: 5455, Nicholson Road Science Market, Ambala Cantt.133001 Haryana(India),
Contact no: +91-8295241953, +91-7404210730

CERTIFICATE OF ANALYSIS

Product Name	L-LEUCINE 99+% FOR BIOCHEMISTRY
Cas No.	61-90-5
Code No.	B-01538A
Batch No.	BC06230644
Mfg.Date	JUNE-2023
Date of Analysis	02/06/2023
Retest Date	MAY-2028

TEST	SPECIFICATION	RESULT
Appearance	White crystalline powder	White crystalline powder
Assay (by HClO ₄ titration)	Min 99%	99.60%
Specific optical rotation ([α] _D ²⁰ ; c=4 in 6 M HCl; on dried substance)	+14.9 to +16.5	+15.2
pH (1% solution)	Passes test	6.20
Appearance of solution	Passes test	Passes
Insoluble matter in HCl 1 mol/L	Max 0.2%	Passes
Loss on drying (at 105°C)	Max 0.1%	0.18%
Residue on ignition (as SO ₄)	Max 0.02%	0.027%
Chloride (Cl)	Max 0.03%	0.007%
Sulphate (SO ₄)	Max 0.001%	0.019%
Iron (Fe)	Max 0.001%	0.0002%
Heavy metal (as Pb)	Max 0.02%	0.0004%
Ammonium (NH ₄)	Max 0.02%	0.008%
Foreign amino acids	Max 0.3%	0.011%
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