

CERTIFICATE OF ANALYSIS

Product Name	: L-Leucine 99% For Biochemistry	Release Date	: 31-Jul-2026
Batch No.	: Sample COA	Mol. Weight	: 131.18
Mol. Formula	: C6H13NO2	CAS No.	: 61-90-5
Code No.	: 04395	Exp. Date	: Jun-2031
Mfg. Date	: Jul-2026	UN No.	: -
HAZ. / P.G.	: -		

Sr.	Tests	Specifications	Results
1	Appearance	White crystalline powder.	White crystalline powder.
2	Assay (by HClO4 titration)	Min 99%	99.19%
3	Specific optical rotation ([α]20/D; c=4 in 6 M HCl; on dried substance)	+14.9 to +16.50 deg	+15.3320 deg
4	pH (1% solution)	5.5 - 7.0	5.58
5	Appearance of solution	Passes test	Passes test
6	Insoluble matter in HCl 1 mol/L	Passes test	Passes test
7	Loss on drying (at 105°C)	Max 0.2%	0.17%
8	Residue on ignition (as SO4)	Max 0.1%	0.09%
9	Chloride (Cl)	Max 0.05%	0.039%
10	Sulphate (SO4)	Max 0.03%	0.021%
11	Iron (Fe)	Max 0.001%	Not detected
12	Heavy metal (as Pb)	Max 0.001%	Not detected
13	Ammonium (NH4)	Max 0.02%	0.015%
14	Foreign amino acids	Max 0.3%	<0.3%
15	Other ninhydrin positive substances (as glycine)	Max 0.1%	<0.1%

Conclusion: The above results comply with the specification. The product conforms to L-Leucine 99% For Biochemistry quality requirements.

ASES Chemical Works is the Packager of this product. This Certificate of Analysis is issued based on testing of the representative sample of the above batch.

For ASES Chemical Works

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Authorized Signatory

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