

Chem-Impex International, Inc.

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825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	00200
Product	L-Leucine
Lot Number	001192-002812009-3 L-Leu-OH (S)-2-Amino-4-methylpentanoic acid
CAS Number	61-90-5
Molecular Formula	C ₆ H ₁₃ NO ₂
Molecular Weight	131.18

Appearance	White crystalline powder
Heavy Metals	< 15 ppm
Anion	Chloride (Cl ⁻): < 0.05% Sulfate (SO ₄ ²⁻): < 0.03%
Cation	Iron (Fe): < 30 ppm
pH	6.2
Optical Rotation	[α] _D ²⁵ = +15.1° (C=1 in 6N HCl)
Infrared Spectrum	Conforms to structure
Loss on Drying	0.10%
Residual Solvents	Have no any organic solvent used in this manufacturing process
Residue On Ignition	0.06%
Assay by titration	99.5% (anhydrous basis)
Purity	Individual impurity < 0.5%; Total impurities < 2.0%
Grade	USP
Storage	Store at RT

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Lot Number: 001192-002812009-3

Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

Bala Kumar
Quality Control Manager