



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

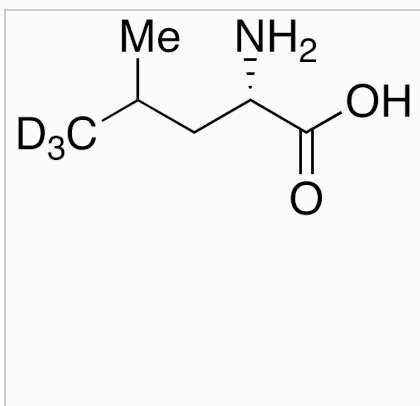
Catalogue Number: L330112

CAS Number: 87828-86-2

Product: L-Leucine-d3

Synonym: (2S)-2-Amino-4-methylpentanoic Acid-d3; (S)-(+)-Leucine-d3; (S)-2-Amino-4-methylpentanoic Acid-d3; (S)-2-Amino-4-methylvaleric Acid-d3; (S)-Leucine-d3; L-(+)-Leucine-d3; L-2-Amino-4-methylpentanoic Acid-d3; L- α -Aminoisocaproic Acid-d3; NSC 46709-d3;

Structure:



Molecular Formula:

C₆H₁₀D₃NO₂

Molecular weight:

134.19

Source of Product:

N/A

Solubility:

Aqueous Acid (Slightly),
Aqueous Base (Slightly),
Methanol (Slightly) Water (Slightly)

Lot Number: 3-LXM-191-1

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1: Not Determined

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	Off-White Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.9%
Specific Rotation	Report Result	+14.0° (c = 0.2, 1N HCl)

Additional Information:

TLC Conditions: C18; Acetonitrile : Water = 9 : 1; Visualized with KMnO₄ and Ninhydrin; Single Spot, R_f = 0.25. Normalized Intensity: d₀ = 0.01%, d₁ = 0.05%, d₂ = 0.23%, d₃ = 99.72%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Neha Khanna	Toni Rantanen	My Nguyen	12/9/2019	12/7/2026
