



CERTIFICATE OF ANALYSIS

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1. Identification

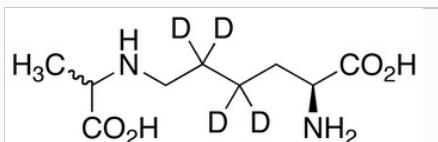
Catalogue Number: C178072

CAS Number: NA

Product: Nε-(1-Carboxyethyl)-L-lysine-d4 (Mixture of Diastereomers)

Synonym: Nε-(1-Carboxyethyl)lysine-d4; N6-(1-Carboxyethyl)-L-lysine-d4;

Structure:



Molecular Formula:

C₉H₁₄D₄N₂O₄

Molecular weight:

222.27

Source of Product:

Synthetic

Solubility:

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

Lot Number: 3-SUB-8-2

Purity: 96%

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

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Beige Solid	White Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 47.16, %H: 7.91, %N: 12.05
HPLC Purity	Report Result	99.67% (ELSD)
Specific Rotation	Report Result	+1.1° (c = 0.1, Water)
Isotopic Purity	>95%	98.5% (d0 = 0.29%)

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 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
Evan Burns	Toni Rantanen	Chanell Chu	11/8/2021	11/6/2025