



CERTIFICATE OF ANALYSIS

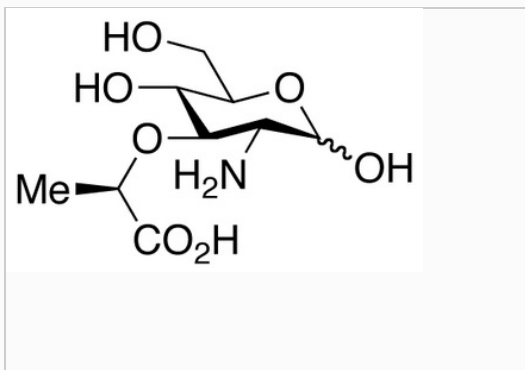
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1. Identification

Catalogue Number: M800000

Product: Muramic Acid

Structure:



CAS Number: 1114-41-6

Synonym: (R)-2-Amino-3-O-(1-carboxyethyl)-2-deoxy-D-glucose;

Molecular Formula:

C₉H₁₇NO₇

Molecular weight:

251.24

Source of Product:

Synthetic

Solubility:

Methanol (Slightly), Water (Slightly)

Lot Number: 11-JMR-95-2

Purity: 97%

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

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Specific Rotation	Report Result	+113.5° (c = 0.2, Water; 4 Hours)
Appearance	White to Light Brown Solid	White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 42.72, %H: 6.77, %N: 5.46
HPLC Purity	Report Result	99.33% (ELSD)
MS	Conforms to Structure	Conforms

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 $\pm 2\%$. 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
Swathi Reddy	Toni Rantanen	Chanell Chu	3/7/2022	3/5/2026