

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue Number: C521060 CAS Number: 121633-50-9

Product: Citric acid-2,4-13C2 Synonym: 2-Hydroxy-1,2,3-propane-1,3-13C2-

tricarboxylic Acid;

Structure: O OH Molecular Formula:

HO C413C2H8O7
Molecular weight:

194.11

Source of Product:

N/A Solubility:

DMSO (Slightly), Methanol

(Slightly)

Lot Number: 16-SBL-175-1 Purity: 98%

Shipping This Product Is Stable To Be Shipped At Storage

Condition: Room Temperature

Condition: Condition: 4°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Elemental Analysis Conforms %C: 37.22, %H: 4.21

Appearance White to Pale Beige Solid White to Off-White Solid

NMRConforms to StructureConformsMSConforms to StructureConformsC NMRConforms to StructureConforms

HPLC Purity Report Result 98.60% (ELSD)

Isotopic Purity >95% >99.9% (13C0 = 0.04%)

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

Henry Tieu Toni Rantanen Chanell Chu 6/9/2021 6/7/2025

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