



CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue Number: D552113

CAS Number: 300577-17-7

Product: L-Dihydroorotic Acid-D3

Synonym: (4S)-Hexahydro-2,6-dioxo-4-pyrimidine-5-D-carboxylic Acid; (S)-2,6-Dioxohexahydropyrimidine-4-carboxylic-4,5,5-D3 Acid

Structure:



Molecular Formula:

C₅H₃D₃N₂O₄

Molecular weight:

161.13

Source of Product:

Synthetic

Solubility:

DMSO (Slightly), Water (Slightly)

Lot Number: 10-MBA-25-1

Purity: 97%

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	Off-White to Pale Beige Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 35.61, %H: 3.91, %N: 15.78
HPLC Purity	Report Result	97.97% (ELSD)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	98.3%
Specific Rotation	Report Result	+47.1° (c = 0.4, Water)

Additional Information:

Normalized Intensity: d0 = 0.33%, d1 = 0.11%, d2 = 3.95%, d3 = 95.61%

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
Henry Tieu	Toni Rantanen	Chanell Chu	6/15/2022	6/13/2026