



CERTIFICATE OF ANALYSIS

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1. Identification

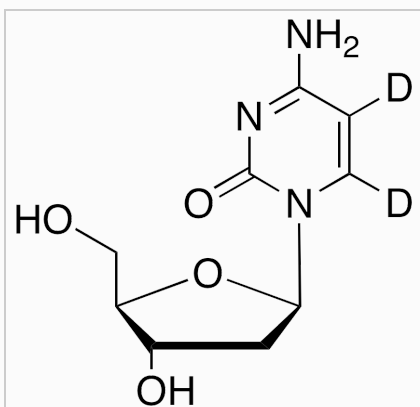
Catalogue Number: D232618

CAS Number: 1186526-91-9

Product: 2'-Deoxy Cytidine-5,6-d₂

Synonym: 1-(2-Deoxy-β-D-ribofuranosyl)cytosine-d₂; 4-Amino-1-(2-deoxy-β-D-erythro-pentofuranosyl)-2(1H)-pyrimidinone-d₂; Cytosine Deoxyribonucleoside-d₂; Cytosine Deoxyriboside-d₂; Deoxycytidine-d₂; Deoxyribose Cytidine-d₂;

Structure:



Molecular Formula:

C₉H₁₁D₂N₃O₄

Molecular weight:

229.23

Source of Product:

Synthetic

Solubility:

Methanol (Slightly), Water (Slightly)

Lot Number: 27-ISU-181-5

Purity: 98%

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 Pale Yellow Solid	Pale Yellow Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	100.00% (270 nm)
Isotopic Purity	>95%	96.0%
Elemental Analysis	Conforms	%C: 46.57, %H: 5.55, %N: 17.97
Specific Rotation	Report Result	+53.3° (c = 0.1, Water)

Additional Information: Normalized Intensity: d₀ = 0.24%, d₁ = 7.58%, d₂ = 92.18%

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
Sarbjit Kaur	Toni Rantanen	Chanell Chu	2/7/2024	2/5/2028
				