



CERTIFICATE OF ANALYSIS

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1. Identification

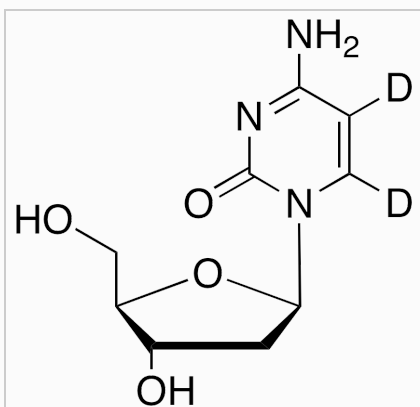
Catalogue Number: D232618

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-181-2

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 | White to Off-White Solid |
| NMR | Conforms to Structure | Conforms |
| Elemental Analysis | Conforms | %C: 46.20, %H: 5.61, %N: 17.98 |
| MS | Conforms to Structure | Conforms |
| Isotopic Purity | >95% | 96.3% |
| Specific Rotation | Report Result | +50.4° (c = 0.2, Water) |
| HPLC Purity | Report Result | 99.42% (270 nm) |

Additional Information: Normalized Intensity: d₀ = 0.14%, d₁ = 7.14%, d₂ = 92.72%

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 | 2/6/2024 | 2/4/2028 |
|  |  |  | | |