



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

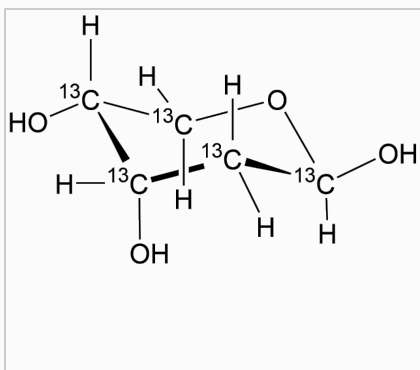
Catalogue Number: D252001

CAS Number: 266998-43-0

Product: 2-Deoxy-D-ribose-13C5

Synonym: 2-Deoxy-D-erythro-pentose-13C5; 2-Deoxy-D-arabinose-13C5; D-(-)-2-Deoxyribose-13C5; Deoxyribose-5-13C; Thyminose-5-13C;

Structure:



Molecular Formula:

$^{13}\text{C}_5\text{H}_{10}\text{O}_4$

Molecular weight:

139.09

Source of Product:

N/A

Solubility:

Methanol (Slightly), Water (Sparingly)

Lot Number: 17-SBL-104-1

Purity: 97%

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

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Elemental Analysis	Conforms	%C: 39.79, %H: 7.69
Appearance	White to Off-White Waxy Solid to Solid	White to Off-White Waxy Solid
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
HPLC Purity	Report Result	98.18% (ELSD)
Specific Rotation	Report Result	-45.5° (c = 0.2, Water; 4 Hours)
Isotopic Purity	>95%	96.8% (13C0 = 0.26%)
MS	Conforms to Structure	Conforms
Water Content	Report Result	9.2% by Karl Fischer

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
Nicole Yip	Toni Rantanen	Chanell Chu	7/5/2021	7/3/2025