



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

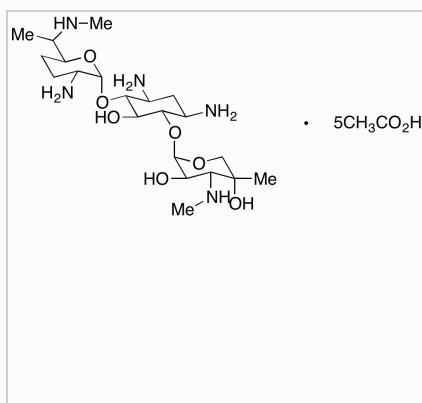
Catalogue Number: G360587

CAS Number: 287730-69-2

Product: Gentamicin C1 Deuterated Pentaacetate Salt (>90%)

Synonym: O-2-Amino-2,3,4,6,7-pentadeoxy-6-(methylamino)-α-D-ribo-heptopyranosyl-(14)-O-[3-deoxy-4-C-methyl-3-(methylamino)-β-L-arabinopyranosyl-(16)]-2-deoxy-D-streptamine Pentaacetate Salt Deuterated

Structure:



Molecular Formula:

C₃₁H₆₃N₅O₁₇ (for non-Deuterated)

Molecular weight:

777.86 (for non-Deuterated)

Source of Product:

Synthetic

Solubility:

Methanol (Slightly), Water (Slightly)

Lot Number: 10-KHI-193-1

Purity: >90%

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

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 Yellow Solid
Elemental Analysis	Conforms	%C: 42.94, %H: 8.51, %N: 8.70
HPLC Purity	Report Result	90.21% (ELSD)
MS	Conforms to Structure	Conforms
NMR	Conforms to Structure	Conforms
Specific Rotation	Report Result	+93.9° (c = 0.2, Methanol)
Water Content	Report Result	~9.3% based on Elemental Analysis

Additional Information:

Normalized Intensity: d0 = 0.99%, d1 = 1.23%, d2 = 32.72%, d3 = 31.97%, d4 = 15.28%, d5 = 9.62%, d6 = 5.20%, d7 = 2.73%, d8 = 0.24%

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
Nicole Yip	Toni Rantanen	Christina Gouliaras	4/29/2022	4/27/2026
				