



CERTIFICATE OF ANALYSIS

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1. Identification

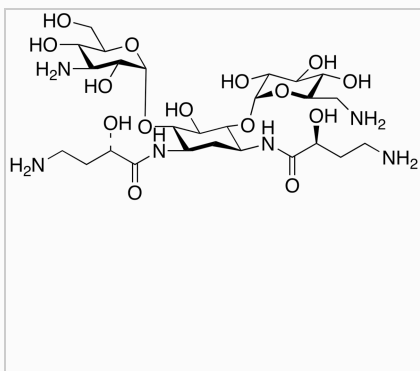
Catalogue Number: D446375

CAS Number: 927821-99-6

Product: 1,3-Di-HABA Kanamycin A

Synonym: O-3-Amino-3-deoxy- α -D-glucopyranosyl-(1 $\rightarrow$ 6)-O-[6-amino-6-deoxy- α -D-glucopyranosyl-(1 $\rightarrow$ 4)]-N1,N3-bis[(2S)-4-amino-2-hydroxy-1-oxobutyl]-2-deoxy-D-streptamine; Amikacin EP Impurity B

Structure:



Molecular Formula:

C₂₆H₅₀N₆O₁₅

Molecular weight:

686.71

Source of Product:

Synthetic

Solubility:

Aqueous Acid (Slightly),
Methanol (Slightly)

Lot Number: 2023-GRR-001

Purity: 95%

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 Off-White Solid	Off-White Solid
NMR	Conforms to Structure	Conforms
HPLC Purity	Report Result	98.35% (ELSD)
Elemental Analysis	Conforms	%C: 39.99, %H: 7.14, %N: 10.11
C NMR	Conforms to Structure	Conforms
Specific Rotation	Report Result	+60.9° (c = 0.5, 0.1N HCl)

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
Henry Tieu	Toni Rantanen	Christina Gouliaras	7/27/2023	7/25/2027