



CERTIFICATE OF ANALYSIS

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1. Identification

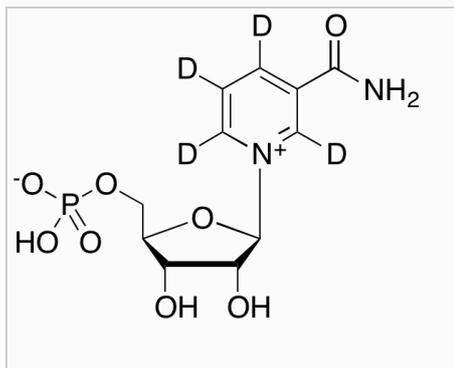
Catalogue Number: N407768

CAS Number: NA

Product: b-Nicotinamide-d4 Mononucleotide (d4-major)

Synonym: 3-(Aminocarbonyl)-1-(5-O-phosphono-β-D-ribofuranosyl)pyridinium-d4 Inner Salt;

Structure:



Molecular Formula:

C₁₁H₁₁D₄N₂O₈P

Molecular weight:

338.24

Source of Product:

Synthetic

Solubility:

Methanol (Slightly), Water (Slightly)

Lot Number: 20-EQJ-125-1

Purity: 97%

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 Off-White Sticky Solid to Solid	White to Off-White Sticky Solid to Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 36.73, %H: 4.73, %N: 7.80
HPLC Purity	Report Result	99.00% (205 nm)
MS	Conforms to Structure	Conforms
P NMR	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.6%

Additional Information:

Normalized Intensity: d0 = 0.03%, d1 = 0.00%, d2 = 0.00%, d3 = 1.67%, d4 = 98.30%

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
swathi reddy	Toni Rantanen	Chanell Chu	8/31/2023	8/29/2027

R. Lavi