



CERTIFICATE OF ANALYSIS

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1. Identification

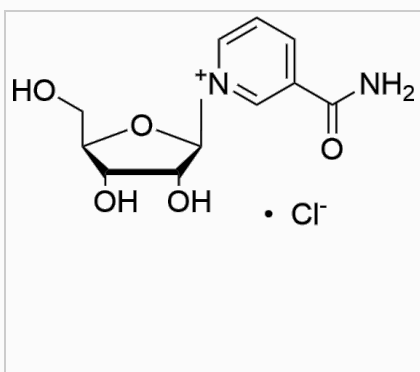
Catalogue Number: N412460

CAS Number: 23111-00-4

Product: Nicotinamide Riboside Chloride

Synonym: N-Ribosylnicotinamide Chloride; 3-Carbamoyl-1-((2R,3R,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)pyridin-1-ium Chloride

Structure:



Molecular Formula:

C₁₁H₁₅ClN₂O₅

Molecular weight:

290.07

Source of Product:

N/A

Solubility:

DMSO (Slightly), Methanol (Slightly)

Lot Number: 3-ASA-169-1

Purity: 97%

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 | White Solid |
| NMR | Conforms to Structure | Conforms |
| Elemental Analysis | Conforms | %C: 45.69, %H: 4.94, %N: 9.67 |
| MS | Conforms to Structure | Conforms |
| Chloride Content | Report Result | 11.90% by Ion Chromatography |
| Specific Rotation | Report Result | -62.4° (c = 0.5, Methanol) |
| HPLC Purity | Report Result | 97.29% (210 nm) |

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 ± 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 |
|------------------|---------------|--------------------|-----------|-------------|
| Meenakshi Sharma | Toni Rantanen | Chanell Chu | 4/11/2022 | 4/9/2026 |