

## **CERTIFICATE OF ANALYSIS**

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## 1. Identification

Catalogue N407783 CAS Number: NA Number:

D

OH

b-Nicotinamide Adenine Dinucleotide-d4 Product:

(major)

0

HO

Structure:

Synonym:

β-NAD-d4 (major)

Molecular Formula: C21H23D4N7O14P2 Molecular weight:

667.45

Source of Product:

**Synthetic** Solubility:

Aqueous Base (Slightly),

Water (Slightly)

Lot Number: 5-JAB-88-1

This Product Is Stable To Be Shipped At

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**Shipping** Condition: Room Temperature **Purity:** 98%

Storage -20°C Condition:

2. Warning

Warning 1: Warning 2: Warning 3:

 $NH_2$ 

3. Analytical Information

Specifications: Tests: Results:

-28.9° (c = 0.1, Water) Specific Rotation Report Result White to Off-White Solid **Appearance** White to Off-White Solid

**NMR** Conforms to Structure Conforms P NMR Conforms to Structure Conforms MS Conforms to Structure Conforms

%C: 36.47, %H: 4.42, %N: 14.06 Elemental Analysis Conforms

**HPLC Purity** 98.71% (205 nm) Report Result

Water Content Report Result ~3.5% based on Elemental Analysis

Normalized Intensity: d0 = 0.01%, d1 = 0.02%, d2 = 0.59%, d3 = 0.02%**Additional Information:** 

25.64%, d4 = 73.74%Contains: ~0.9% Methanol

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

C of A Approved **Reviewed By Reviewed By Test Date Retest Date** Bv Swathi Reddy Toni Rantanen Chanell Chu

2/18/2022 2/16/2026

R. Lewi

