

## 1. Identification

**Catalogue Number**

N407784

**Lot Number**

712218116-3-1

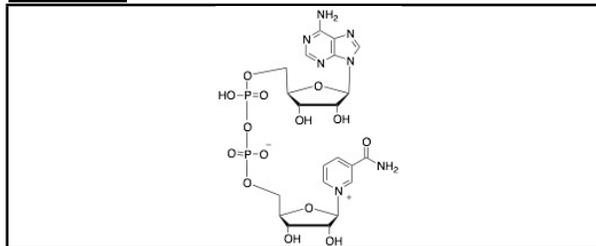
**Product Name**

b-Nicotinamide Adenine Dinucleotide

**Synonyms**

Adenosine 5'-(Trihydrogen Diphosphate), P<sup>2</sup>'5'-Ester with 3-(Aminocarbonyl)-1-β-D-ribofuranosylpyridinium Hydroxide, Inner Salt; Pyridinium, 3-Carbamoyl-1-β-D-ribofuranosyl-, Hydroxide, 5'β5'-Ester with Adenosine 5'-(Trihydrogen Pyrophosphate), Inner Salt (8Cl); Adenine-nicotinamide Dinucleotide; CO-I; Codehydrase I; Codehydrogenase I; Coenzyme I; Cozymase I; DPN;

**Structure**



**CAS Number**

53-84-9

**Solubility**

Methanol (Slightly), Water (Slightly)

**Shipping Condition**

This Product Is Stable To Be Shipped At Room Temperature

**Molecular Formula**

C<sub>21</sub>H<sub>27</sub>N<sub>7</sub>O<sub>14</sub>P<sub>2</sub>

**Source of Product**

N/A

**Long Term Storage Conditions**

-20°C, Inert atmosphere

**Molecular Weight**

663.43

**Purity**

>95%

## 2. Warnings

Not Determined

## 3. Analytical Information

**Tests**

Appearance

**Specifications**

White to Pale Yellow Solid

**Results**

White to Off-White Solid

NMR

Conforms to Structure

Conforms

P NMR

Conforms to Structure

Conforms

Elemental Analysis

Conforms

%C: 34.52, %H: 4.63, %N: 13.35

HPLC Purity

>95%

99.63% (205 nm)

MS

Conforms to Structure

Conforms

Specific Rotation

Report Result

-28.0° (c = 0.1, Water)

**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**

*A. Vijaya*

Vijaya Annapareddy  
Product Quality Specialist

**Reviewed by**

*Toni Rantanen*

Toni Rantanen  
Manager, Quality Assurance

**C of A Approved by**

*Christina Gouliaras*

Christina Gouliaras  
Quality Assurance Associate

**Test Date**

4/28/2025

**Retest Date**

4/26/2029