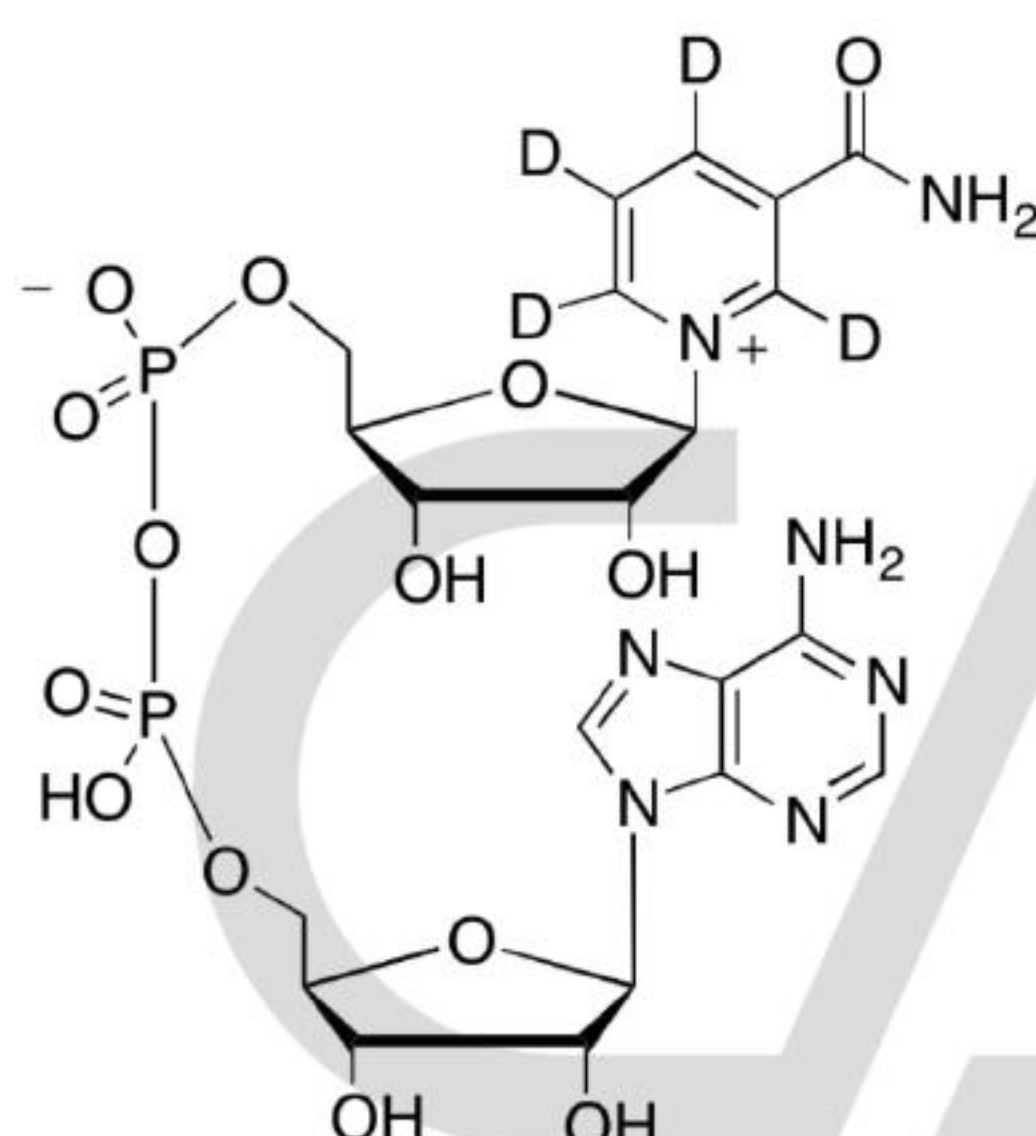


Certificate of Analysis

Reference Material & Standard

Product Name:	beta-Nicotinamide Adenine Dinucleotide-d4	Catalogue Number:	CCFD202138
Synonyms:	N/A	Lot Number:	0706-RH-0062
CAS Number:	N/A	Expiry Date:	Jun 07, 2030
Molecular Formula:	C ₂₁ D ₄ H ₂₃ N ₇ O ₁₄ P ₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	667.45	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	HPLC	97.7%
Isotopic Purity		98.70% (D4: 95.01%; D3: 4.99%)
Uncertainty		±0.5%

Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Jul 06, 2026

Date: Jul 06, 2026

Date: Jul 06, 2026



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