

Certificate of Analysis

Product Name :

β-Nicotinamide adenine dinucleotide hydrate ≥96.5% (HPLC), ≥96.5% (spectrophotometric assay), from yeast

Product Number :**N7004-5G****Batch Number :****0000476939**

Source Batch :

0000414325

CAS Number :

53-84-9

MDL Number :

MFCD00036253

Storage Temperature :

-20°C

Molecular Formula :

C₂₁H₂₇N₇O₁₄P₂ · xH₂O

Formula Weight :

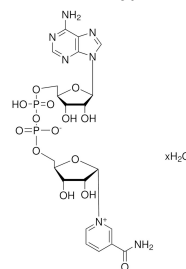
663.43(anhydrous basis) g/mol

Recommended Retest Date :

Mar 2027

Quality Release Date :

20 Mar 2025



Test	Specification	Result
Appearance (Color)	White to Off White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless to Faint Yellow	Colorless
Solubility (Turbidity)	Clear	Clear
50 mg/mL, H ₂ O		
¹ H NMR Spectrum	Conforms to Structure	Conforms
Water (by Karl Fischer)	≤ 10 %	6 %
Solvent Content (by NMR)	≤ 3 %	0 %
acetone		
Spectrophotometric Purity	≥ 96.5 %	97.5 %
(dry basis)		
Purity (HPLC)	≥ 96.5 %	99.8 %

Jagodige Yasomanee, Supervisor

Quality Assurance

St. Louis, Dekalb

US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale

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