



MP Biomedicals, LLC

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Certificate of Analysis

Product Description: beta-Nicotinamide Adenine Dinucleotide Reduced Disodium Salt

Catalog Number: 160050

Lot: QR15639

Formula: $C_{21}H_{27}N_7O_{14}P_2Na_2$

CAS #: 606-68-8

Physical Description: Pale Yellow Powder

Formula Weight: 709.4

Storage: -20°C, desiccate, protect from light, store under nitrogen

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥98%	98.3%
FTIR	Conforms to Standard	Conforms to Standard
UV/VIS (water): □ max OD260/OD340	258 - 260 nm 2.0 - 2.8	259.2 nm 2.30
Water Content	≤9%	6.5%

pH (10% aq soln): 8.94

NADH: 86.6%

Sodium: 5.4%

Spectral analysis:

- 260 nm (pH 10): 14.3×10^3 L/mole/cm

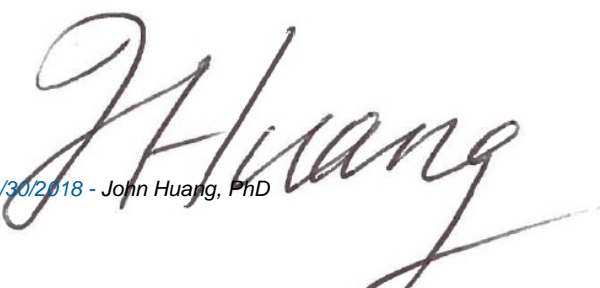
- 340 (pH 10): 6.3×10^3 L/mole/cm

Ratio @ pH 10

- A250 / A260: 0.81

- A280 / A260: 0.24

Recommended Retest Date: 05/14/2021


05/30/2018 - John Huang, PhD

MP Biomedicals, LLC.
Quality Control Manager

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Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site

Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)