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## Certificate of Analysis

**Product Description:** beta-Nicotinamide Adenine Dinucleotide, Reduced, Disodium Salt  
**Catalog Number:** 101168  
**Lot:** SR05084

**Formula:** C<sub>21</sub>H<sub>27</sub>N<sub>7</sub>O<sub>14</sub>P<sub>2</sub>Na<sub>2</sub>**CAS #:** 606-68-8**Physical Description:** Off-White 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): λ max OD260/OD340	258 - 260 nm 2.0 - 2.8	259.33 nm 2.250
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 x 10<sup>(3)</sup> L/mole/cm- 340 (pH 10): 6.3 x 10<sup>(3)</sup> L/mole/cm

Ratio @ pH 10

- A250 / A260: 0.81

- A280 / A260: 0.24

Reccomended Retest Date (MM/DD/YYYY): 01/20/2024

A handwritten signature in cursive script that reads 'John Huang'.

01/24/2022 - John Huang, PhD

MP Biomedicals, LLC.

Quality Control Manager

This is an electronically generated document

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http://www.mpbio.com

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