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## Certificate of Analysis

**Product Description:** beta-Nicotinamide Adenine Dinucleotide Reduced Disodium Salt  
**Catalog Number:** 160050  
**Lot:** M3326

**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:** White Powder

**Formula Weight:** 709.4

**Storage:** -0°C, desiccate, protect from light, store under nitrogen

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥98%	98%
FTIR	Conforms to Standard	Conforms to Standard
UV/VIS (water): □ max OD260/OD340	258 - 260 nm 2.0 - 2.8	259.5 nm 2.3
Water Content	≤9%	7.5%
pH (10% aq soln)	7.5 - 9.5	8.01

NADH: 85.2%

Sodium: 5.5%

Spectral Analysis:

Ratio at pH 10

-- A250/A260: 0.80

-- A280/A260: 0.24

-- A340/A260: 0.44

*Christina Marotta*

02/07/2012 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

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<http://www.mpbio.com>

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

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