



MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: beta-Nicotinamide Adenine Dinucleotide Reduced Disodium Salt
Catalog Number: 160050
Lot: 5984F

Formula: C₂₁H₂₇N₇O₁₄P₂Na₂

CAS #: 606-68-8

Physical Description: Off-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	260 nm 2.2
Water Content	≤6%	5%
pH (10% aq soln)	7.5 - 9.5	8

Sodium: 6%

NAD (enzyme): < 1%

AMP Enzyme: < 0.1%

Heavy Metals: 1 ppm

Total Bioburden: 44 CFU/gram

Coliform: < 100 CFU/gram

Yeast and mold: < 100 CFU/gram

Staphylococcus Aureus: Negative

Salmonella: Negative

E. coli: Negative

12/17/2002 - Joseph Dietz, Ph.D.
MP Biomedicals, LLC.

This is an electronically generated document

<mailto:biotech@mpbio.com>

<http://www.mpbio.com>

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)