



MP Biomedicals, LLC

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Certificate of Analysis

Product Description: beta-Nicotinamide adenine dinucleotide, oxidized, free acid

Catalog Number: 160047

Lot: 2101A

Formula: C₂₁H₂₇N₇O₁₄P₂

CAS #: 53-84-9

Physical Description: fine white powder

Formula Weight: 663.40

Storage: 0 °C, desiccate

Test	Specification	Results
Purity	≥ 99%	99.6%
FTIR	Conforms to standard	Conforms to standard
pH	(1% aq.) 2- 4	2.78
Loss on drying	≤ 10 %	3.3%
Lambda max (1% aq.)	259 nm ± 3	259.4nm
OD 250/260	0.8± 0.15	0.85
OD 280/260	0.2 ± 0.15	0.32
OD 290/260	0.1 +/- 0.1	0.12

03/10/1988 - Joseph Dietz, Ph.D.

MP Biomedicals, LLC.

Technical Director

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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)