



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-215562
Lot Number: SAMPLE
Product Name: β -Nicotinamide adenine dinucleotide, reduced disodium salt hydrate
CAS Number: 606-68-8 (anhydrous)
Molecular Formula: $C_{21}H_{27}N_7Na_2O_{14}P_2 \cdot xH_2O$
Molecular Weight: 709.40 (anhydrous basis)

Test	Specification	Result
Appearance	White to light yellow powder	Off white powder
Purity (HPLC)	$\geq 97.00\%$	97.58%
Purity (Spectrophotometric)	$\geq 97.00\%$	96.99%
Solution (Color)	Light yellow to yellow green at 100 mg/ml in 0.01 M NaOH	Yellow green at 100 mg/ml in 0.01 M NaOH
Solution (Turbidity)	Clear to slightly hazy at 100 mg/ml in 0.01 M NaOH	Clear at 100 mg/ml in 0.01 M NaOH
Solvent Content (GC)	$\leq 6.0\%$	3.860%
Extinction Coefficient	≥ 11.40 (EmM)	12.92
Wavelength	258 - 260 nm	259 nm
Sodium (ICP)	5.0 - 8.0%(dry base)	6.6%
Water Content (KF)	$\leq 9.0\%$ (4 mol/mol)	9.119%%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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