

CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-214453A Lot Number: SAMPLE

Product Name: å-Nicotinamide adenine dinucleotide

CAS Number: 7298-93-3

Molecular Formula: $C_{21}H_{26}N_7NaO_{14}P_2$

Molecular Weight: 685.41

Native Source: Saccharomyces cerevisiae

Test	Specification	Result
Appearance	White to faint yellow powder	Off-white powder
Purity (HPLC)	≥95%	99%
Solubility	Clear colorless to faint yellow at 50 mg/ml in water	Clear very faint yellow solution
Solvent Content (GC)	≤ 5%	3.1% ethanol < 0.04% methanol
Extinction Coefficient	EmM: 16.3 - 17.1 at λmax of 259 nm -261 nm in 0.1 M Phosphate, pH 7.0	16.5 at λmax of 259 nm at pH 7.0
Impurity	β-isomer impurity: ≤ 1% (by HPLC)	0.1% β-NAD (dry basis)
Phosphorus (ICP)	8.7 - 10.0%	9.1%
Water Content (KF)	≤ 7%	2.1%

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