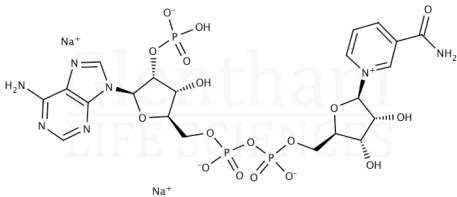


Certificate of Analysis

Product Name	beta-Nicotinamide adenine dinucleotide phosphate disodium salt
Glenthams Code	GE9477
CAS Number	24292-60-2
EINECS	246-129-8
MDL Number	MFCD00065390
PubChem SID	310277755
Batch Number	446GZU
Molecular Weight	787.37 (anhydrous)
Molecular Formula	C ₂₁ H ₂₆ N ₇ Na ₂ O ₁₇ P ₃ · xH ₂ O
Storage Temp.	-20°C



Property	Specification	Batch 446GZU
Physical Description	Off-white to light-yellow crystalline powder	Conforms
Purity (HPLC)	≥ 95.0%	98.7%
Purity (Enzymatic)	≥ 93.0%	95.1%
Water	≤ 8.0%	4.6%
Sodium (Na)	4.5 - 7.5 %	6.1%
pH (10% in water)	4.0 - 6.0	5.9
Molar Absorptivity	17000 - 19000 L/mole/cm	17000 L/mole/cm
Absorbance Ratios (260nm, pH 7.5)	A250/A260: 0.80 - 0.86	0.82
	A280/A260: 0.19 - 0.23	0.22

Specification Version	v1.0
Manufacture Date	2014-07-02
Re-Test Date	2025-03-10

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glenthams.com or contact us using the details above for the current version of this document.

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