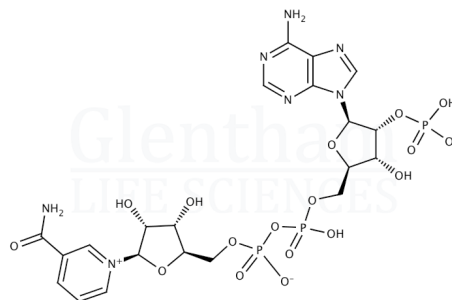


## Certificate of Analysis

Product Name b-Nicotinamide adenine dinucleotide phosphate hydrate  
Glentham Code GN8530  
CAS Number 53-59-8  
MDL Number MFCD10567218  
PubChem SID 310277756  
Batch Number 936QKE

Molecular Weight 743.41 (anhydrous)  
Molecular Formula  $C_{21}H_{28}N_7O_{17}P_3 \cdot xH_2O$   
Storage Temp. -20°C



Property	Specification	Batch 936QKE
Physical Description	White to off-white or light-yellow powder or crystals	White crystals
Identification (IR)	To conform to standard	Conforms to standard
Solubility (5% in water)	Clear, colourless to faint yellow solution	Clear, colourless solution
pH (10% in water)	1.0 - 2.0	1.2
Absorbance Ratio	0.75 - 0.90 (A250/A260, pH 7.5)	0.82
Absorbance Ratio	0.18 - 0.23 (A280/A260, pH 7.5)	0.22
Water (KF)	≤ 6.0%	3.4%
Purity (HPLC)	≥ 95.0%	96.8%

Specification Version v1.1  
Manufacture Date 2022-08-14  
Re-Test Date 2030-11-15

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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