

## CERTIFICATE OF ANALYSIS

## NAD+

Nicotinamide Adenine Dinucleotide · 1000mg Lyophilised

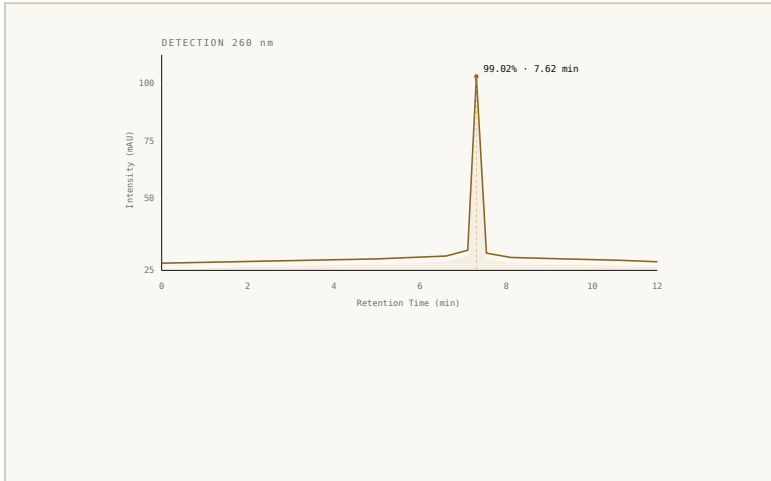
## 01 PRODUCT INFORMATION

PRODUCT	NAD+	CAS NUMBER	53-84-9
CHEMICAL NAME	Nicotinamide Adenine Dinucleotide (oxidised)	MOL. FORMULA	C <sub>21</sub> H <sub>27</sub> N <sub>7</sub> O <sub>14</sub> P <sub>2</sub>
QUANTITY	1000mg per vial	MOL. WEIGHT	663.43 g/mol
BATCH / LOT	NAD250430	APPEARANCE	White to off-white powder
MFG. DATE	30 April 2026	RETEST DATE	30 April 2028
STORAGE	2–8°C, dark, dry	INTENDED USE	Research Use Only

## 02 ANALYTICAL RESULTS

TEST ITEM	SPECIFICATION	RESULT	METHOD
Appearance	White to off-white powder	✓ COMPLIES	Visual
Identification	Positive	✓ COMPLIES	HPLC / MS
Structural Confirmation	Matches reference standard	✓ COMPLIES	Mass Spec.
Purity	≥ 99.0%	99.02%	HPLC
Assay (Active Content)	≥ 98.0%	99.7%	HPLC
Water Content	≤ 8.0%	3.3%	Karl Fischer
Bacterial Endotoxins	≤ 10 EU/mg	< 2 EU/mg	LAL Test
Residual Solvents	Meets USP / EP requirements	✓ COMPLIES	GC
Heavy Metals	≤ 10 ppm	< 1 ppm	ICP-MS
Sterility	Sterile	✓ COMPLIES	USP <71>
pH (Reconstituted)	4.0 – 7.0	6.2	pH Meter

## 03 HPLC CHROMATOGRAM SUMMARY



MAIN PEAK RT	7.62 min
PEAK AREA	99.02%
TOTAL IMPURITIES	0.98%
DETECTION	UV 260 nm
COLUMN	C18 reversed-phase

## 04 MASS SPECTROMETRY SUMMARY

ANALYSIS MODE	ESI-MS, negative ion mode
COMPONENT IDENTIFICATION	Single component, 663.43 Da observed
REFERENCE STANDARD	Matches NAD+ reference standard
RESULT	✓ IDENTITY CONFIRMED

## 05 QUALITY ASSURANCE &amp; AUTHORISATION

*“This batch has been manufactured and tested in accordance with internal quality control procedures and complies with all specifications listed in this Certificate of Analysis.”*

**RELEASED**  
QC APPROVED

APPROVED BY

Sarah Bennett

QUALITY ASSURANCE MANAGER

SIGNATURE

*S. Bennett*

AUTHORISED DIGITALLY

DATE OF ISSUE

30 April 2026

ISSUED DIGITALLY

## 06 LABORATORY INFORMATION

ANALYTICAL TESTING BY

**Hongbai Technology Co.**

Independent third-party laboratory · HPLC · MS · ICP-MS · LAL

**ISO/IEC**  
**17025**  
ACCREDITED

ISSUED BY

Nexapep Ltd

DOCUMENT TYPE

Independent Third-Party CoA

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TEST REPORT NO.

HB-NAD250430

WEBSITE

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SAMPLE REFERENCE

NAD250430



DOCUMENT VERIFICATION REFERENCE

NX-NAD250430-AE66-28F6

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