CRAFA
PEPTIDE & COMPOUND ANALYSIS

Independent Peptide & Research-Compound Testing
14 Mill Lane, Cambridge, United Kingdom

CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-2092
Issued: 2026-10-17

PRODUCT IDENTIFICATION

PRODUCT
NAD+ 100 mg

SKU / INTERNAL CODE
CRF-2026-2092

PRESENTATION
Lyophilised powder, 100 mg vial

BATCH NUMBER
LOT-2610-2092

CLIENT
veltispeptides.mx

SAMPLE RECEIVED
2026-10-12

ANALYSIS DATE
2026-10-15

PRODUCTION DATE
2026-10-10

ISSUED
2026-10-17

EXPIRY / RETEST
2028-10-17

MOLECULAR FORMULA
C21H27N7O14P2

MOLECULAR WEIGHT
663.43

CAS NUMBER
53-84-9

ANALYTICAL METHOD

PANEL
SILVER - HPLC-UV + LC-MS/MS + ICP-MS (Pb/As/Cd/Hg) + LAL endotoxin

METHOD
RP-HPLC-UV 254 nm · LC-MS/MS ESI Q-TOF · ICP-MS · LAL kinetic chromogenic (USP <85>)

INSTRUMENT
Agilent 1260 · Thermo Q-Exactive · Agilent 7900 ICP-MS · Charles River Endosafe nexgen-PTS

Column: C18 4.6×150mm | Temperature: 30°C | Mobile phase: 0.1% Formic Acid / MeOH | Flow: 1.0 mL/min | Retention time: 4.8 min

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1. PURITY & ASSAY - RP-HPLC-UV (254 nm)

Test	Specification	Result	Status
HPLC Purity	≥98.0%	99.5%	PASS
Quantity	95.0-105.0%	100.4 mg (100.4%)	PASS
Nicotinamide / NMN degradation products		<0.4% combined	PASS

2. LC-MS/MS STRUCTURAL CONFIRMATION

Test	Reported data	Status
Theoretical [M+H]+	664.4 | Observed: 664.5 | Δ +0.10 Da	PASS
Key fragments (MS/MS)	542.0 (loss of nicotinamide, -123) · 428.0 (AMP) · 346.0 (ADP fragment)	PASS
Structural markers	pyrophosphate bridge and two ribose rings confirmed by sequential neutral losses (H2O ×3, ribose)	PASS

RESEARCH USE ONLY - NOT FOR HUMAN OR VETERINARY USE

3. HEAVY METALS - ICP-MS (USP <232>/<233>)

Test	Specification	Result	Status
Pb	≤5.0 µg/g	<0.05 µg/g	PASS
As	≤15.0 µg/g	<0.10 µg/g	PASS
Cd	≤2.0 µg/g	<0.02 µg/g	PASS
Hg	≤3.0 µg/g	<0.01 µg/g	PASS

4. ENDOTOXIN - LAL kinetic chromogenic (USP <85>)

Test	Reported data	Status
Result	<1.0 EU/mg limit | 0.19 EU/mg | PPC recovery 91%	PASS

FINAL BATCH RESULT

PASS - Conforms to specifications

ANALYST NOTES

β-nicotinamide adenine dinucleotide, free acid. Water content 2.8% (KF). No ADP/AMP contamination above 0.3%.

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