

CERTIFICATE OF ANALYSIS

Product Information

Product Name:	NAD+
Lot No.:	VS2320250711-100
Sequence:	NAD+
Modifications:	N/A

Quality Control

Test Items	Specifications	Results
Appearance	White to off-white lyophilized powder	Conforms
Molecular Weight (MS)	663.43±1.0 Da	663.20 Da
Purity by HPLC	>98%	99.4%
Retention Time (HPLC)	±0.2min of Standard	Conforms
Net Peptide Content	≥100mg	110.2mg
Solubility	100 mg/1ml H ₂ O	Clearly soluble
Methanol Content	≤0.300%	0.020%
Ethanol Content	≤0.500%	0.020%
Total Aerobic Count	≤100CFU/g	Conforms
Yeast & Molds Count	≤100CFU/g	Conforms
Endotoxins	≤0.5EU/mg	Conforms

Storage Conditions:	-20°C
Quality Control:	Mike P.
Date of Analysis:	July 2025

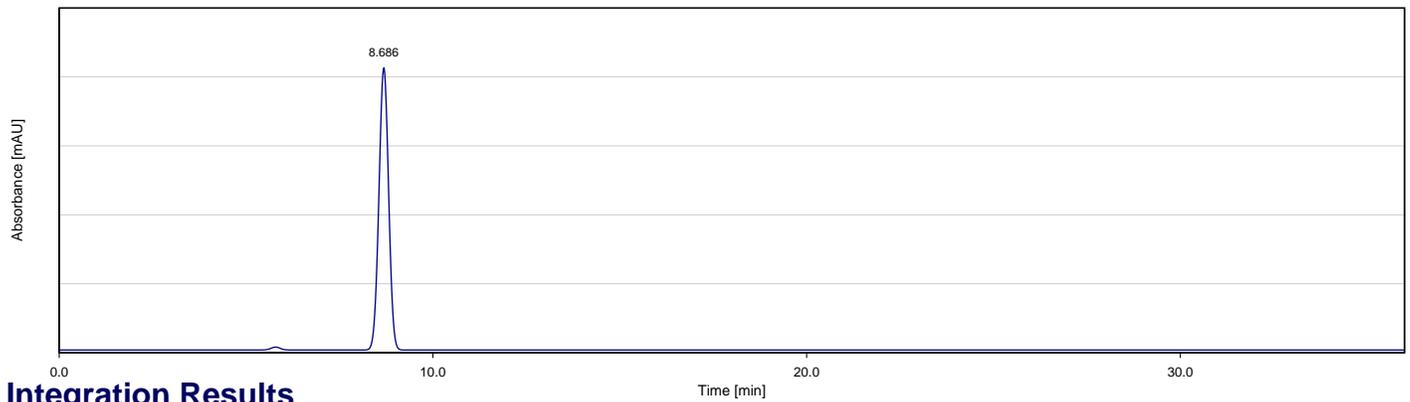
Sample Information

Lot. No	VS2320250711-100
Pump A	0.1% trifluoroacetic in 100% water
Pump B	0.1% trifluoroacetic in 100% acetonitrile
Total Flow	0.8ml/min
Wavelength	220nm
Analytical column type	Phenomenex Luna 3um C18 (2) (4.6*150mm*3um)
Dissolution method	100%H2O
Inj. Volume	12ul

Gradient Program

Time	Module	Action	Value
0.01	Pumps	B.Conc	0
30.00	Pumps	B.Conc	15
35.00	Pumps	B.Conc	90
36.00	Controller	Stop	

Chromatogram

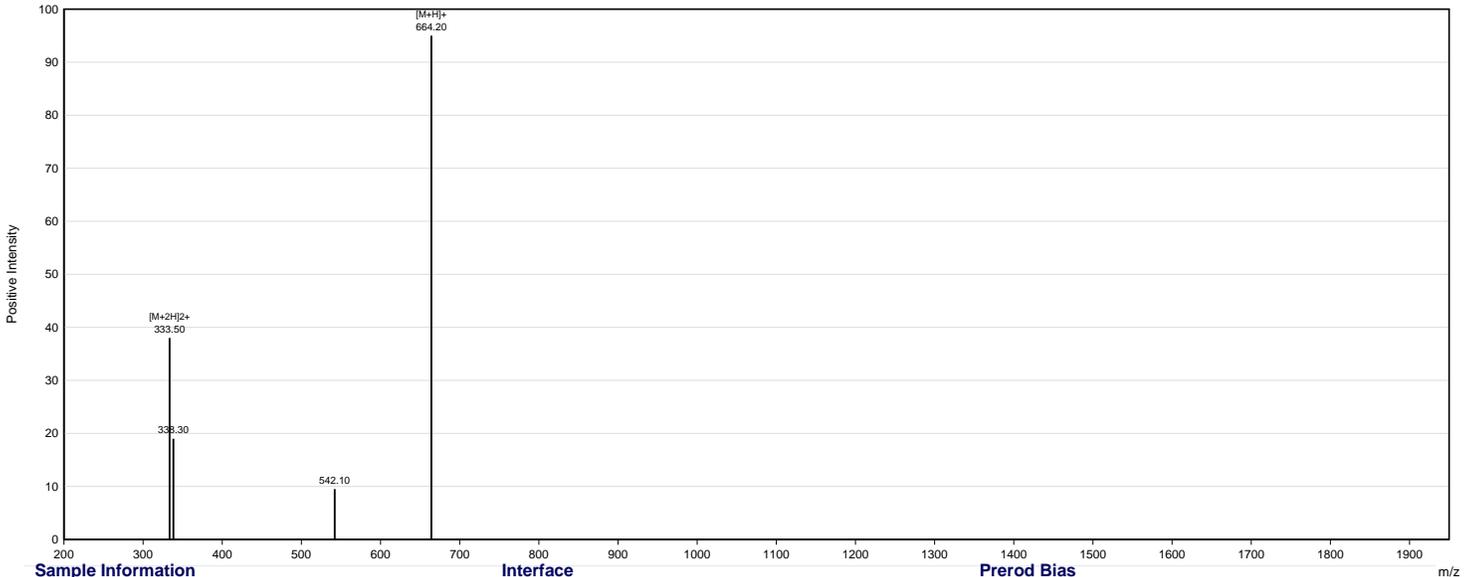


Integration Results

No.	Ret. Time	Area	Height	Relative Area %	Amount
1	5.790	52479	4483	0.650	n.a.
2	8.686	8027154	435242	99.350	n.a.
Total		8079633	439724	100.000	n.a.

Conclusion: Main peak at RT 8.686 min, purity 99.35% by area

MS Spectrum



Sample Information

Dissolution method :3%HAC+25%ACN+72%H₂O
Injection Volume :1ul

Interface

Interface :ESI
Nebulizing Gas Flow :1.50L/min
CDL Temp :250C
CDL Volt :0v
Block Temp :200

Prerod Bias

Prerod Bias :+4.5kv
Detector :-0.2kv
T.Flow :0.2ml/min
B. conc :30%H₂O/70%MeOH

Lot No.	VS2320250711-100
Theoretical	663.43
Observed	663.20