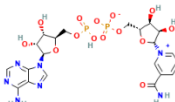


CHEM RESEARCH LTD

Certificate of Analysis			
Product Name	NAD+		
CAS. NO.	53-84-9	Batch No.	20250704-0
Molecular Formula	C ₂₁ H ₂₇ N ₇ O ₁₄ P ₂	Molecular Weight	663.43
Mfg.Date	2026.02.15	Retest Date	2027.07.03
Report Date	2026.02.15	Quantity	5000g
Structure:			
			
Items		Specification	Result
1	Appearance	White to off white powder	White powder
2	Solubility	Soluble in water	Conforms
3	Water Content (K.F)	≤10.0%	6.18%
4	PH	2.0-5.0	2.8
5	Hg	< 0.5ppm	Conforms
6	Cd	< 0.5ppm	Conforms
8	ARSENIC	< 0.5ppm	Conforms
9	Lead	< 0.5ppm	Conforms
10	Total Plate Count (cfu/g)	< 750 cfu/g	conforms
11	Yeast & Mould (cfu/g)	< 750 cfu/g	conforms
12	Purity (by HPLC)	≥99.0%	99.61%
13	Bacterial Endotoxins	< 0.5 EU/mg	Conforms
14	Assay	≥99.0%	99.52%
Storage	Preserve in an air tight container, protected from light at a dry and cool place.		
Conclusion	The product tested Conform with In-house standard		
Remark	It is only supplied as chemical product		

HPLC report

Data file:

2025-07-04 13-35-50+08-00-02.dx

Sequence Name:

20250704-2

Project Name:

A

Sample name:

NAD+ 20250604-0

Operator:

System

Instrument:

Agilent1260

Injection date:

2025-07-04 13:36:30+08:00

Inj. volume:

3.000

Location:

P1-C2

Acq. method:

2-27 260nm.amx

Type:

Sample

Processing method:

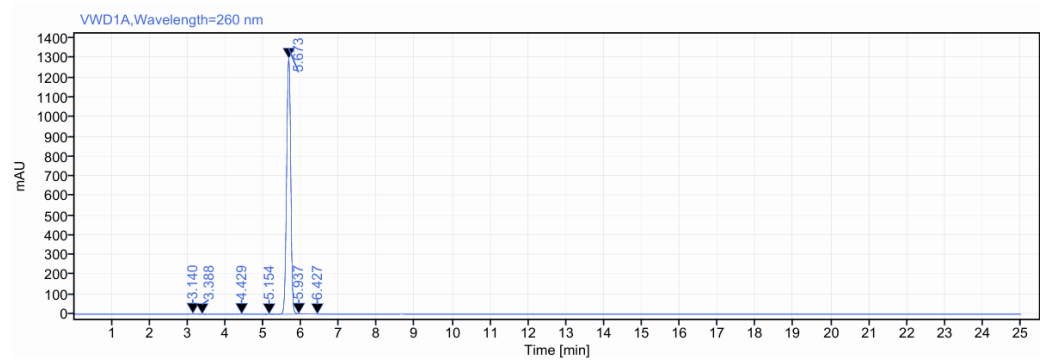
GC_LC_DefaultMethod.pmx

Sample amount:

0.00

Manually modified:

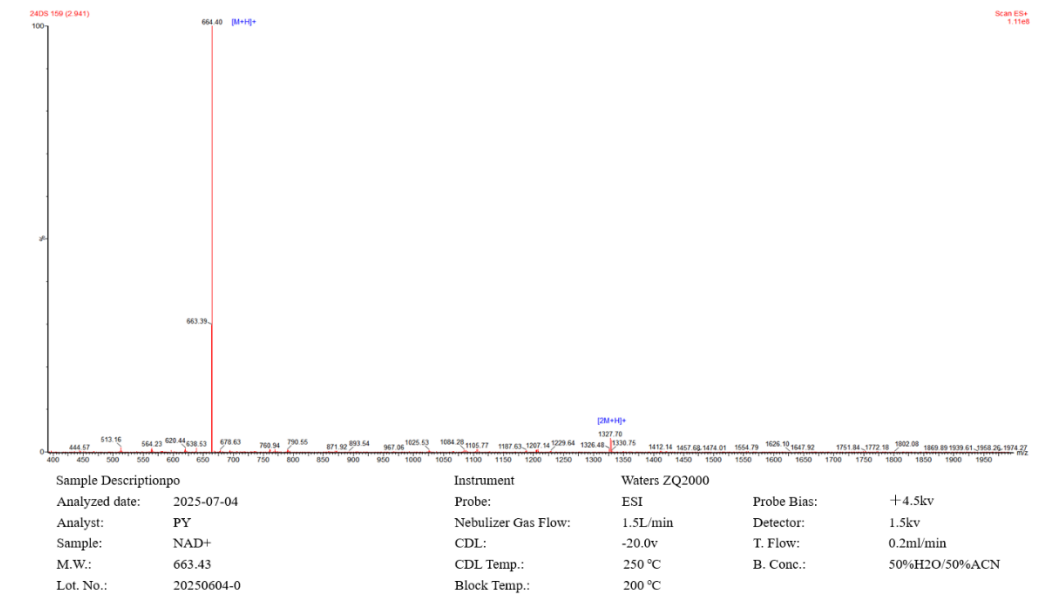
Manual Integration



Signal: VWD1A,Wavelength=260 nm

RT [min]	Type	Width [min]	Area	Height	Area%	Name
3.140	MM m	0.28	18.35	2.53	0.19	
3.388	MM m	0.16	0.63	0.12	0.01	
4.429	MM m	0.21	6.62	0.97	0.07	
5.154	MM m	0.25	1.96	0.23	0.02	
5.673	MM m	0.52	9807.06	1297.56	99.61	
5.937	MM m	0.26	9.71	1.82	0.10	
6.427	MM m	0.22	0.84	0.10	0.01	
Sum			9845.17			

MASS SPECTROMETRY REPORT



Sample Description

po

Analyzed date:

2025-07-04

Instrument:

Waters ZQ2000

Analyst:

PY

Probe:

ESI

Sample:

NAD+

Nebulizer Gas Flow:

1.5L/min

M.W.:

663.43

CDL:

-20.0v

Lot. No.:

20250604-0

CDL Temp.:

250 °C

Block Temp.:

200 °C

Probe Bias:

+4.5kv

Detector:

1.5kv

T. Flow:

0.2ml/min

B. Conc.:

50%H2O/50%ACN