


## UHPLC CERTIFICATE OF ANALYSIS

### SAMPLE INFORMATION

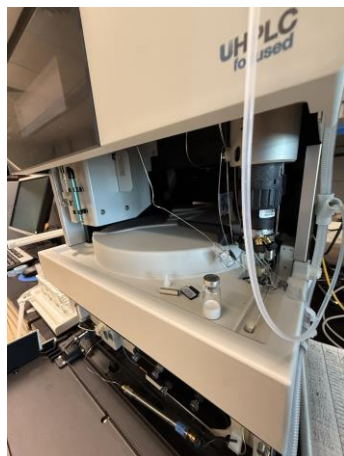
Sample received:

<b>Product Name</b>	NAD+ 500mg Batch No. 50109
<b>Sequence</b>	Nicotinamide-ribose-5'-phosphate – pyrophosphate – adenosine-ribose-5'-phosphate
<b>Dissolution Condition</b>	100% UHPLC water with 0.1% Trifluoroacetic Acid (TFA). Dissolved sample picture included here. 
<b>Molecular Weight</b>	~663.43 g/mol

**STORAGE CONDITION:** 0 °C

### SAMPLE NOTES

One 3 ml clear glass vial with silver cap and silver aluminum crimp. Lyophilized powder present.



## PUMP SETTINGS

<b>Pump A</b>	100% H2O with .1% Trifluoroacetic Acid
<b>Pump D</b>	Acetonitrile + 0.1% FA
<b>Column Usage</b>	Agilent Zorbax 300SB-C18, 2.1 x 100 mm, 1.7 µm, 300 Å
<b>Gradient</b>	- 2% D hold (0–0.5 min) - 2 → 15% D over 6 min (≈2.17% D/min) - 15 → 30% D over 3 min - Hold 30% D (2 min) - Re-equilibrate to 2% D over 3.5 min - Total run time: ~15 min.
<b>Pump Settings</b>	0.6 mL/min
<b>Injection Volume:</b>	10 µL
<b>Temperature</b>	30 °C

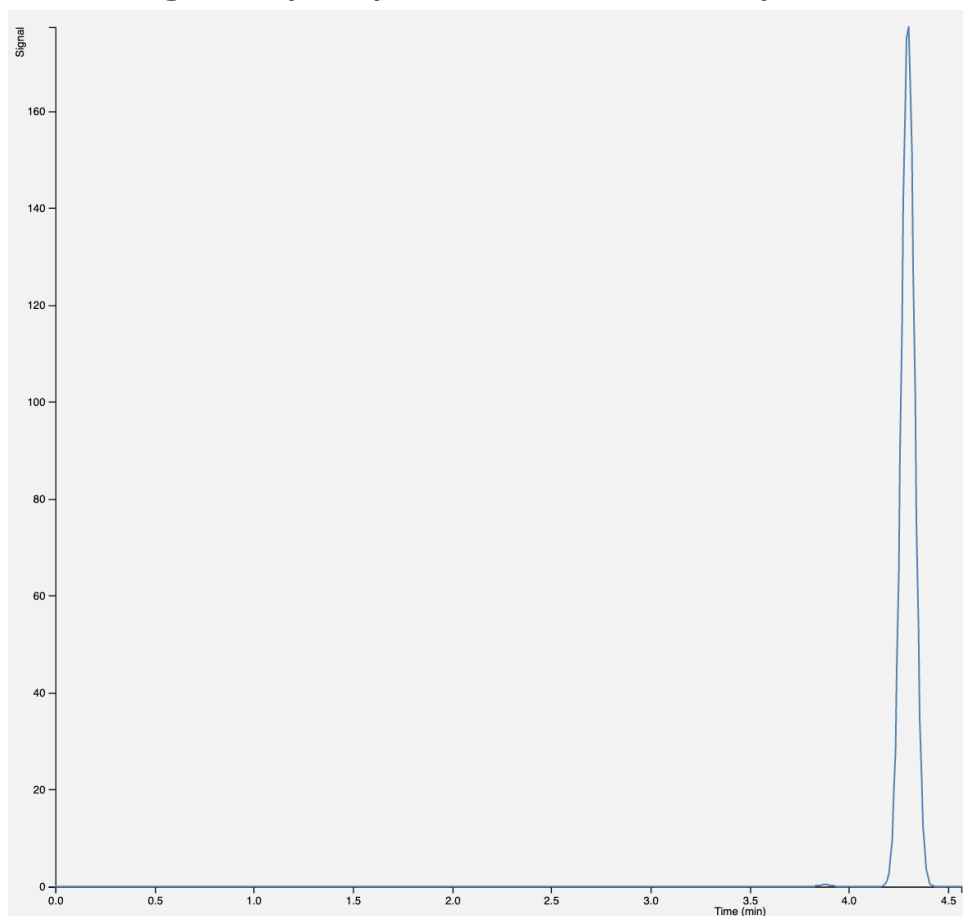
## PURITY RESULT

Purity is **99.94%**

**Product weight extrapolation: 502.6mg**

Total impurity 0.06% (trace inert solvents and minor unidentified peaks; no significant related substances or degradation products detected above 0.1%).

**Chromatogram Export: please note that x axis represents elution window.**



## CONCLUSION

This sample was analyzed on a Thermo Ultimate U3000 HPLC stack using reverse-phase high-performance liquid chromatography and determined to contain **99.94% NAD+**, with the remainder being impurities of minor significance.

## CERTIFICATION

**Certified by:** Jonathan Barber

**Title:** Analytical Chemist

**Date:** 16 April 2026



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