

CERTIFICATE OF ANALYSIS

1. PRODUCT INFORMATION

Product Name	NAD+
CAS Number	53-84-9
Molecular Formula	C ₂₁ H ₂₇ N ₇ O ₁₄ P ₂
Form	Crystalline powder
Molecular Weight	663.43 Da
Batch / Lot Number	PE20250605
Manufacturing Date	06/05/2025
Report Date	06/06/2025
Retest Date	06/04/2027
Quantity	500 mg
Storage Conditions	Sealed, stored at 2-8°C

2. GENERAL PROPERTIES

No.	Test Parameter	Specification	Result	Status
2.1	Appearance	White or almost white crystalline powder	Conforms	Pass
2.2	Solubility	Dissolve easily in water	Conforms	Pass
2.3	pH	2 - 5	3.25	Pass
2.4	Sodium Content	NMT 1.0%	0.001%	Pass
2.5	Loss on Drying	NMT 5%	2.0%	Pass

3. RESIDUAL SOLVENTS

No.	Test Parameter	Specification	Result	Status
3.1	Ethanol	NMT 2.0%	0.015%	Pass
3.2	Methanol	NMT 1.0%	N.D.	Pass

4. RELATED SUBSTANCES (HPLC)

No.	Test Parameter	Specification	Result	Status
4.1	Lead (Pb)	NMT 0.5 ppm	Conforms	Pass
4.2	Arsenic (As)	NMT 0.5 ppm	Conforms	Pass
4.3	Mercury (Hg)	NMT 0.5 ppm	Conforms	Pass
4.4	Cadmium (Cd)	NMT 0.5 ppm	Conforms	Pass

5. BIOLOGICAL TESTING

No.	Test Parameter	Specification	Result	Status
5.1	Total Plate Count	NMT 300 cfu/g	Conforms	Pass
5.2	Yeast and Mold	NMT 100 cfu/g	Conforms	Pass
5.3	Escherichia coli	NMT 10 MPN/g	Conforms	Pass
5.4	Staphylococcus aureus	N.D.	Conforms	Pass
5.5	Salmonella	N.D.	Conforms	Pass
5.6	Total Microbial Count	NMT 750 CFU/g	< 10 CFU/g	Pass

6. ASSAY

No.	Test Parameter	Specification	Result	Status
6.1	Purity	NLT 98.0%	99.55%	Pass
6.2	Assay	NLT 98.0%	99.50%	Pass

7. CONCLUSION

The product tested complies with the specifications.

--- End of Certificate ---