

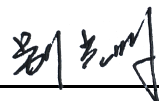
Certificate of Quality

Product Name: p-Nicotinamide-adenine dinucleotide (NAD)
Product Number: N6110C
Lot Number: 24WH1627
CAS Number: Formula: 53-84-9
Formula Weight: $C_{21}H_{27}N_7O_{14}P_2$
 663.4 (as anhydrous free acid)
 681.4 (as monohydrate)
Quality Release Date: 2024/12
Term of validity 2026/12
Storage Temperature: Store at 2 -8°C

Test	Specification	Result
purity	≥ 98%	99.4 %
NAD ⁺ contents	--	97.4 %
Water contents	≤ 8 %	2.0 %
color	white to off-white	white to off-white
spectral analysis		
1. ϵ at 260 nm and pH 7.5	$(18 \pm 0.5) \times 10^3$ L/mole/cm	17.8×10^3 L/mole/cm
2. Ratio at pH 7.5		
A250 / A260	0.83 ± 0.03	0.83
A280 / A260	0.21 ± 0.02	0.2
3. ϵ when reduced with alcohol dehydrogenase at 340 nm and pH 10	$(6.3 \pm 0.2) \times 10^3$ L/mole/cm	6.3×10^3 L/mole/cm
4. Ratio when reduced with alcohol dehydrogenase at pH 10		
A340 / A260	0.43 ± 0.01	



Conclusion: The product complies with enterprise standard.



 Qc manager