



CERTIFICATE OF ANALYSIS

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|--------------|--|
| Product | NAD-Trihydrate |
| Grade | Reagent |
| Product Code | NB0641 |
| Formula | $C_{21}H_{27}N_7O_{14}P_2 \cdot 3H_2O$ |
| MW | 717.47 |
| CAS# | 53-84-9 |
| Lot No | |

| Test Items | Specifications | Results |
|---|--|---------|
| Purity | $\geq 97\%$ | |
| NAD ⁺ contents | --- | |
| Water contents | $< 8\%$ | |
| Spectral analysis | | |
| 1. ϵ at 260nm and pH 7.5 | $(18.0 \pm 0.8) \times 10^3$ L/mole/cm | |
| 2. Ratio at pH 7.5 | | |
| A250 /A260 | 0.83 ± 0.03 | |
| A280 /A260 | 0.21 ± 0.02 | |
| 3. ϵ when reduced with glucose-6-phosphate dehydrogenase at 340nm and pH 7.5 | $(6.3 \pm 0.2) \times 10^3$ L/mole/cm | |
| 4. Ratio when reduced with glucose-6-phosphate dehydrogenase at 340nm and pH 7.5 A340 /A 260 | 0.43 ± 0.02 | |

Storage: -20°C