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-CERTIFICATE OF ANALYSIS-

Product: Nicotinamide adenine dinucleotide, oxidised form

Code No: BIB3011

CAS No: 53-84-9

Formula: $C_{21}H_{27}N_7O_{14}P_2$

Batch No: AS452993

Purity: 96.9%

NAD⁺ content: 94.9%

Water content: 2.0%

Spectral analysis:

1. ϵ at 260nm and pH 7.5: 17.6×10^3 L/mole/cm

2. Ratio at pH 7.5

A_{250}/A_{260} : 0.83

A_{280}/A_{260} : 0.20

3. ϵ when reduced with alcohol dehydrogenase at 340 nm and pH 10: 6.1×10^3 L/mole/cm

4. Ratio when reduced with alcohol dehydrogenase at pH 10

A_{340}/A_{260} : 0.42

Verified by: David Parton

Signed:

Date: 25th June 2015