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## -CERTIFICATE OF ANALYSIS-

Product: Nicotinamide adenine dinucleotide phosphate  
Code No: BIB3013  
CAS No: 1184-16-3  
Formula:  $C_{21}H_{27}N_7O_{17}P_3 \cdot Na$   
Batch Number: AS455155  
Purity: 95.8%  
NADP<sup>+</sup> content: 88.9%  
Sodium content: 2.6% by atomic absorption spectroscopy  
Water content: 4.7% by KF  
Spectral analysis:  
1.  $\epsilon$  at 260nm and pH 7.5  
 $17.3 \times 10^3 \text{ L.mole}^{-1} \cdot \text{cm}^{-1}$   
2.  $\epsilon$  when reduced with glucose -6-phosphate dehydrogenase at 340nm and pH7.5.  
 $5.9 \times 10^3 \text{ L.mole}^{-1} \cdot \text{cm}^{-1}$   
3. Ratio at pH 7.5  $A_{250}/A_{206}$  0.83  
 $A_{280}/A_{260}$  0.21  
4. Ratio when reduced with glucose-6-phosphate dehydrogenase at Ph 7.5  
 $A_{340}/A_{260}$  0.42  
Re-test date: June, 2017

Verified by: David Parton

Signed:

Date: 03<sup>rd</sup> June 2015