

# Chem-Impex International, Inc.

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**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

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## Certificate of Analysis

**Catalogue Number** 01542  
**Lot Number** 002162-008409  
**Product** **Nicotinamide adenine dinucleotide**

NAD

DPN

**CAS Number** 53-84-9  
**Molecular Formula**  $C_{21}H_{27}N_7O_{14}P_2$   
**Molecular Weight** 663.4

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**Appearance** White powder  
**Water Content (Karl Fisher)** 2.0%  
**UV Ratios** Ratio at pH 10:  
A250/A260: 0.83  
A280/A260: 0.20  
**Purity** 98.0% (Enzymatic method)  
**Storage** Store at  $\leq -20$  °C

**Additional Information** NAD+ Content: 96.0%  
Spectral analysis:  
 $\epsilon$  260 nm and pH 7.5:  $17.9 \times 10^3$  L/mole/cm  
 $\epsilon$  340 nm and pH 10:  $6.2 \times 10^3$  L/mole/cm  
Ratio when reduced with alcohol dehydrogenase at pH 10:  
A340/A260: 0.42

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**Remarks**

See material safety data sheet for additional information

For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**



**Bala Kumar**  
**Quality Control Manager**