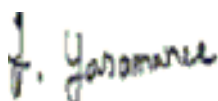


# Certificate of Analysis

**Product Name :**  $\beta$ -Nicotinamide adenine dinucleotide, reduced dipotassium salt  
**Product Number :** N4505-BULK  
**Batch Number :** 0000427908  
**CAS Number :** 104809-32-7  
**MDL Number :** MFCD00079494  
**Storage Temperature :** -20°C  
**Molecular Formula :**  $C_{21}H_{27}K_2N_7O_{14}P_2$   
**Formula Weight :** 741.62 g/mol  
**Quality Release Date :** 21 Apr 2025

Test	Specification	Result
Appearance (Color)	White to Light Yellow	Off White
Appearance (Form)	Powder	Powder
Solubility (Color)	Light Green-Yellow to Green-Yellow and Faint Yellow to Dark Yellow	Faint Yellow
Solubility (Turbidity) 100 mg/ml, 0.01 N NaOH	Clear to Slightly Hazy	Very Slightly Hazy
1H NMR Spectrum	Conforms to Structure	Conforms
Water (by Karl Fischer)	$\leq 9 \%$	4 %
Solvent Content (by NMR)	$\leq 6 \%$	4 %
Potassium (K) (dry basis)	9.5 - 11.7 %	10.4 %
Purity (HPLC)	$\geq 95 \%$	97 %
Purity by UV (dry basis)	$\geq 95 \%$	100 %



Jagodige Yasomanee, Supervisor

Quality Assurance

St. Louis, Dekalb

US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale

Version Number: 01 Doc: 1218539

Page 1 of 1

