



**SISCO  
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## Certificate of Analysis

**Product**

**87253 -  $\beta$ -Nicotinamide Adenine Dinucleotide  
(Oxidized) ( $\beta$ -NAD, DPN) for molecular biology, 98% -  
[53-84-9]**

**Batch No**

**9217679**

**Analysis Date**

24-Jan-2023

**Date of Manufacture**

January 2023

**Expiry Date/Re-Test Date**

January 2028

**Molecular Formula**

C<sub>21</sub>H<sub>27</sub>N<sub>7</sub>O<sub>14</sub>P<sub>2</sub>

**Molecular Weight**

663.44

Test Parameters	Standards	Actual Results
Appearance (Colour)	White to off - white	White
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% aq. solution	Clear	Clear
Solubility (Colour) 10% aq. solution	Colourless to pale yellow	Colourless
Assay (UV)	min. 98%	98.13%
pH (1% aq. solution)	2.5 - 3.0	2.6
Absorbance (A) of 1% aq. solution (pH 7.0) in a 1cm cell	.	.
@260nm	255 - 270	266.25
Spectral Ratio (A <sub>250nm</sub> /A <sub>260nm</sub> )	~0.82	0.82
Spectral Ratio (A <sub>280nm</sub> /A <sub>260nm</sub> )	~0.21	0.21
Water (KF)	max. 7%	1.9%
DNase, RNase, Protease	Not detected	Not detected

FRM/82/11/4/87253 Rev No. 1 Date 09/17/2019

Prepared by **Dhanashree**

In compliance with the standard specifications of SRL

Plant Site 2 : H-4, MIDC, Talaja – 410 208, Maharashtra, India

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