

WROCŁAW UNIVERSITY OF ENVIRONMENTAL AND LIFE SCIENCES

DEPARTMENT OF FOOD CHEMISTRY AND BIOCATALYSIS

Test Report

Sample name:	Pure NMN
Client:	Hansen Sp. z o.o., ul. Zaborowska 8, 05-083 Zaborów, Poland
Purpose of test:	Verification of delivered product
Sample description:	NMN, Beta-Nicotinamide Mononucleotide
Brand name:	Hansen Supplements

Description of substance:

Sample size:	10g
Property:	White powder
Forumla:	C 11 H 15 N 2 O 8 P
CAS number:	1094-61-7
Structure:	



Batch No.:	XJY01231007	
Date received:	20.01.2024	
Test items:	Identification of substance, purity, heavy metals	
Summary:	The sample has been identified and found to be of high quality	
Measured purity:	Above 98% according to ¹ H NMR analysis. Appropriate spectra are	
show	n in (Fig. 1 and 2).	
Authentication method:	Standard and literature NMR shifts	
(https://www.chemicalbook.	com/ChemicalProductProperty EN CB6281591.htm) and ACDLABS database.	



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All values are within the relevant standards

Test results:		
Purity:		
Heavy metals:	n.d.	
Pb (Lead):	n.d.	
Hg (Mercury):	n.d.	
Cd (Cadmium):	n.d.	
As (Arsen):	n.d.	

Comments:

n.d. – not detected, below limit of detection on AAS pectr AA240FS + AA240Z + GTA120

Date:	27.01.2024

Tested by: prof. dr hab. Antoni Szumny



Figure 1. Chemical structure of NMN



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Figure 1. 1H NMN (Nicotinamide mononucleotide), batch No. XJY01231007 of NMR (in D2O) full spectrum;



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Figure 2 ¹³C NMN (Nicotinamide mononucleotide), batch No. XJY01231007 of NMR (in D₂O) selected region spectrum;

27.01.2024,

prof. dr hab. Antoni Szumny



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