

# 非開示情報

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## Certificate of Analysis

Product and Batch Information			
Brand Name	非開示情報		
Product Name	Beta-Nicotinamide Mononucleotide (NMN)		
Version	A: High bulk density (0.3-0.5g/ml) for tablet, capsule form		
Batch No.	非開示情報	CAS#	1094-61-7
Manufacture Date	Sep. 29th, 2020	Expiry Date	Sep. 28th, 2022
Country of Origin	P.R. China	Reference	EFFE 18
Item	Specification	Result	Test Method
<b>Active Ingredient</b>			
Assay(% on dry basis)	99.0% ~102.0%	99.39%	HPLC
Purity	NLT 99.0%	99.74%	HPLC
<b>Physical Control</b>			
Identification	<sup>1</sup> H NMR spectra correspond to reference standard	Conforms	<sup>1</sup> H NMR
	<sup>13</sup> C NMR spectra correspond to reference standard	Conforms	<sup>13</sup> C NMR
	LC-MS retention time and m/z correspond to reference standard	Conforms	LC-MS
Appearance	White to off-white crystalline powder	Conforms	Visual
Odor & taste	Characteristic	Conforms	Organoleptic
Appearance of solution	5%w/v in water: Colorless to pale yellow and clear	Conforms	Organoleptic
Water Content	NMT 1.0%	0.21%	Karl Fischer
PH(1.0g/100mL(25 °C))	3.0-4.5	3.67	CP<0631>
Bulk Density	0.3-0.5g/ml	0.31g/ml	USP<616>
<b>Chemical Control</b>			
Heavy Metals	NMT 10ppm	Conforms	USP<231>
Arsenic (As)	NMT 1ppm	Conforms	ICP-MS
Cadmium (Cd)	NMT 1ppm	Conforms	ICP-MS
Lead (Pb)	NMT 1ppm	Conforms	ICP-MS
Mercury (Hg)	NMT 0.5ppm	Conforms	ICP-MS
<b>Microbiological Control</b>			
Total Plate Count	NMT 1,000cfu/g	<10 cfu/g	USP 42
Yeast & Mold	NMT 1,00cfu/g	<10 cfu/g	USP 42
Salmonella	Negative	Negative	USP 42
E.Coli	Negative	Negative	USP 42
Staphylococcus Aureus	Negative	Negative	USP 42
Pseudomonas aeruginosa	Negative	Negative	USP 42
Bile-tolerant Gram-Negative Bacteria	Negative	Negative	USP 42
Candida albicans	Negative	Negative	USP 42
Clostridia	Negative	Negative	USP 42
<b>Packing and Storage</b>			
Packing	Pack in paper-Carton and two plastic-bags		
Storage	Store in a well-closed container away from		
Shelf Life	2 years if sealed and stored properly.		

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