

EffePharm (Shanghai) Co., Ltd

Bld 4, No.1, Mid Wangdong Rd, Shanghai, China



Certificate of Analysis

Product and Batch Information			
Brand Name	UTHEVER®		
Product Name	Beta-Nicotinamide Mononucleotide (NMN)		
Version	G2: High bulk density (0.3-0.5g/ml) for tablet, capsule form		
Batch No.	NMN220608	CAS#	1094-61-7
Manufacture Date	Jun. 21st, 2022	Expiry Date	Jun.20th, 2024
Country of Origin	P.R. China	Reference	EFFE 18
Item	Specification	Result	Test Method
Active Ingredient			
Assay(% on dry basis)	99.00% ~ 102.00%	99.37%	HPLC
Purity	NLT 99.00%	99.75%	HPLC
Excipient impurities	PVP Free	Negative	GC
Physical Control			
Identification	1H NMR spectra correspond to reference standard	Conforms	1H NMR
	13C NMR spectra correspond to reference standard	Conforms	13C 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
Sodium Content	NMT 1.0%	Conforms	USP43
Water Content	NMT 1.0%	0.15%	Karl Fischer
PH(1.0g/100mL(25°C))	3.0-4.5	3.36	ChP
Bulk Density	0.3-0.5g/ml	0.39	USP43
Residue Solvents	Ethanol: NMT 500ppm	Negative	USP43
Chemical Control			
Arsenic (As)	NMT 0.5ppm	Conforms	ICP-MS
Cadmium (Cd)	NMT 0.5ppm	Conforms	ICP-MS
Lead (Pb)	NMT 0.5ppm	Conforms	ICP-MS
Mercury (Hg)	NMT 0.1ppm	Conforms	ICP-MS
Microbiological Control			
Total Plate Count	NMT 1,000cfu/g	Conforms	USP 43
Yeast & Mold	NMT 1,00cfu/g	Conforms	USP 43
Salmonella	Negative	Negative	USP 43
E.Coli	Negative	Negative	USP 43
Staphylococcus Aureus	Negative	Negative	USP 43
Pseudomonas aeruginosa	Negative	Negative	USP 43
Bile-tolerant Gram-Negative Bacteria	Negative	Negative	USP 43
Candida albicans	Negative	Negative	USP 43
Clostridia	Negative	Negative	USP 43
Coliforms	NMT 0.92MPN/g	Conforms	GB4789.3
Packing and Storage			
Packing	Pack in paper-Carton and two plastic-bags inside.		
Storage	Store in a well-closed container away from moisture and direct sunlight.		
Shelf Life	2 years if sealed and stored properly.		



Analyst:
Approver:

