

# EffePharm (Shanghai) Co., Ltd

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



EFFEPHARM

UTHEVER®

Youth Forever, World's Best NMN

## Specification Sheet

Product Description		
Brand Name	UTHEVER®	
Product Name	Beta-Nicotinamide Mononucleotide (NMN)	
Version	G1: Low bulk density (0.18-0.20g/ml) only for powder form	
CAS#	1094-61-7	
Molecular Formula	C <sub>11</sub> H <sub>15</sub> N <sub>2</sub> O <sub>8</sub> P	
Formula Weight	334.22	
Country of Origin	P.R. China	
Reference	EFFE 18	
Item	Specification	Test Method
<b>Active Ingredient</b>		
Assay(% on dry basis)	99.00% ~ 102.00%	HPLC
Purity	NLT 99.00%	HPLC
<b>Physical Control</b>		
Identification	H NMR spectra correspond to reference standard	1H NMR
	13C NMR spectra correspond to reference standard	13C NMR
	LC-MS retention time and m/z correspond to reference standard	LC-MS
Appearance	White to off-white crystalline powder	Visual
Odor & taste	Characteristic	Organoleptic
Appearance of solution	5%w/v in water: Colorless to pale yellow and clear	Organoleptic
Sodium Content	NMT 1.0%	USP43
Water Content	NMT 1.0%	Karl Fischer
PH(1.0g/100mL(25°C))	3.0-4.5	ChP
Bulk Density	0.18-0.20g/ml	USP43
Residue Solvents	Ethanol: NMT 500ppm	USP43
<b>Chemical Control</b>		
Arsenic (As)	NMT 0.5ppm	ICP-MS
Cadmium (Cd)	NMT 0.5ppm	ICP-MS
Lead (Pb)	NMT 0.5ppm	ICP-MS
Mercury (Hg)	NMT 0.1ppm	ICP-MS
<b>Microbiological Control</b>		
Total Plate Count	NMT 1,000cfu/g	USP43
Yeast & Mold	NMT 100 cfu/g	USP43
Salmonella	Negative	USP43
E.Coli	Negative	USP43
Staphylococcus Aureus	Negative	USP43
Pseudomonas aeruginosa	Negative	USP43
Bile-tolerant Gram-Negative Bacteria	Negative	USP43
Candida albicans	Negative	USP43
Clostridia	Negative	USP43
Coliforms	NMT 0.92MPN/g	GB4789.3
<b>Packing and Storage</b>		
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.	



Prepared by Zhanbei Liu

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