



# UTHEVER<sup>®</sup>

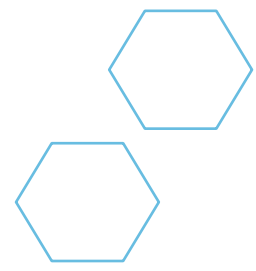
Youth Forever, World's Best NMN



High standard  
Innovative concept



All-star R&D team  
Maximum bioavailability



## Youth Forever, World's Best NMN

Your Expert of NMN Ingredient

More reliable and inexpensive health ingredients

# Trustworthy Quality

## Traceability

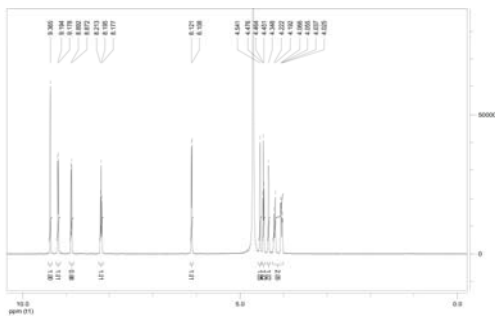
UTHEVER™ uses NR as the raw material which is the FDA GRAS (generally recognized as safe), with multiple detection methods to ensure product quality and safety from the sources.

EffePharm complies with good production specifications, cleaning workshop operations. Technicians will make complete records for each batch of NMN raw material production, from raw material procurement, storage, production to sales, strictly controlling each process.

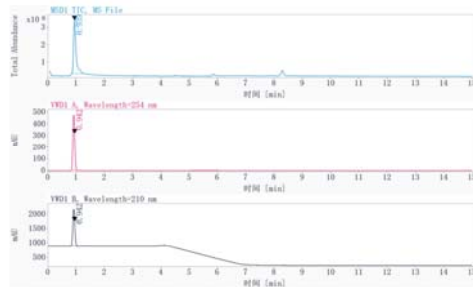


## Authenticity Test (NMR, MS, HPLC)

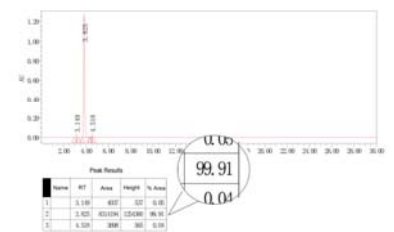
Through the NMR and LC-MS testing reports, EffePharm can further verify the authenticity, high quality and purity (no less than 99%) of UTHEVER™ NMN.



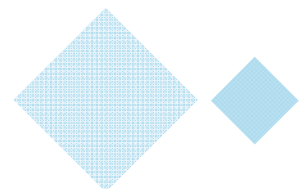
NMR



LC-MS



HPLC, Purity



## Safety Detection

- Third-party Certification

UTHEVER™ has the excellent quality, each batch of raw materials has passed strict self-inspection and third-party testing, we have cooperated with international authoritative testing institution: Intertek, and professional testing institutions such as Summit labs, Micro Quality Las, etc., which show the purity is not less than 99%.

- Strict Control of Impurities, Heavy Metals, and Microorganisms

Based on high purity, the production department also strictly controls impurities, in which single impurities are not higher than 0.5% and total impurities are not higher than 1%. All are known impurities, including NR, nicotinamide, ribose, etc, which are approved by FDA as food ingredients. Besides, our UTHEVER™ heavy metals and microorganisms are strictly controlled within the safe range according to USP standards and can be used with confidence.



Intertek Champaign Laboratories  
711 Parkland Ct.  
Champaign, IL 61821

Tel +1 217-352-5060  
Fax +1 217-352-6052  
[intertek.com/food/Champaign](http://intertek.com/food/Champaign)  
[info.aaciabs@intertek.com](mailto:info.aaciabs@intertek.com)

### Report of Analysis

Control Number: 121219-0717

Effepharm (Shanghai) Co., Ltd

Product Name: Uthever(TM) NMN (Nicotinamide Mononucleotide)

Attn.: jian.hu@effepharm.com

Received On: 12/12/2019

Bld 4, No.1, Mid Wangong Rd  
China

Lot Number: 20191121

Analysis Performed	Method	Specification	Result with Units
β-Nicotinamide mononucleotide	SAM 03043 (HPLC-UV)		99.7 %

Comments:

Authorized by

Xingting Wang

Operations Director

12/19/2019  
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Effepharm (Shanghai) Co., Ltd

No. 1103, Lane 800, Meilishang Rd., Shanghai 201620, China



### Certificate of Analysis

Item	Specification	Result	Test Method
<b>Product and Batch Information</b>			
Brand Name	Uthever™		
Product Name	Beta-Nicotinamide Mononucleotide (NMN)		
Variant	A: High bulk density (NLT 0.3g/ml) for tablet, capsule form		
Batch No.	CF200501	CAS#	1294-61-7
Manufacture Date	Mar. 01th, 2020	Expire Date	Feb. 28th, 2022
Country of Origin	P.R. China	Reference	EFPE 18
<b>Active Ingredient</b>			
Purity	NLT 98.0%	99.34%	HPLC
<b>Physical Control</b>			
IR NMR spectra	correspond to reference standard	Conforms	IR NMR
LC NMR spectra	correspond to reference standard	Conforms	LC 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%	0.99%	Karl Fischer
PH (0.1% in 0.1M HCl, 25°C)	3.0-4.3	3.66	CP-10011
Bulk Density	NLT 0.3g/ml	0.44g/ml	USP-616
<b>Chemical Control</b>			
Heavy Metals	NMT 10ppm	Conforms	USP-231
Arsenic (As)	NMT 1.0ppm	Conforms	ICP-AES
Cadmium (Cd)	NMT 1.0ppm	Conforms	ICP-AES
Lead (Pb)	NMT 1.0ppm	Conforms	ICP-AES
Mercury (Hg)	NMT 0.1ppm	Conforms	ICP-AES
<b>Microbiological Control</b>			
Total Plate Count	NMT 1,000/cfu	<10 cfu/g	USP-40
Yeast & Mold	NMT 1,000/cfu	<10 cfu/g	USP-40
Salmonella	Negative	Negative	USP-40
E. Coli	Negative	Negative	USP-40
Staphylococcus Aureus	Negative	Negative	USP-40
Pseudomonas aeruginosa	Negative	Negative	USP-40
Bile-tolerant Gram-Negative Bacteria	Negative	Negative	USP-40
Candida albicans	Negative	Negative	USP-40
Chloride	Negative	Negative	USP-40
<b>Packing and Storage</b>			
Packing	Pack in paper-Carton and two plastic-bags inside.		
Storage	Store in a well-ventilated container away from moisture and direct sunlight.		
Shelf Life	2 years if sealed and stored properly.		



## Consistency Guarantee

Effepharm strictly controls the quality under an excellent and experienced R & D team and advanced technology. While ensuring that the monthly production capacity meets the market demand, it also ensures the consistency of the quality of each batch of ingredients.

## Scientific Validation of Safety and Efficacy

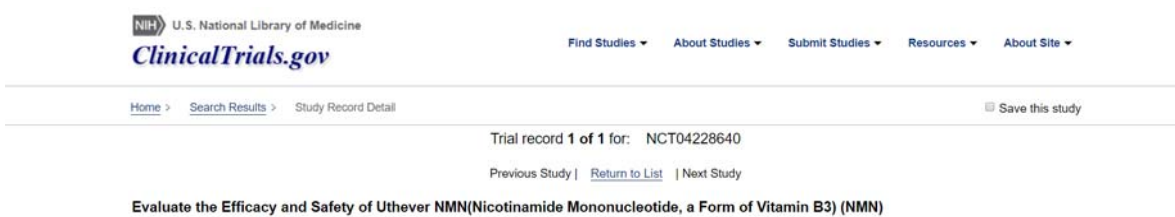
- Clinical Trials Registration

Effepharm is proud to be the first and the only NMN manufacturer in the world to conduct clinical trials. The clinical study on Uthever is the largest scale in the world according to WHO and US Government's clinical database.

Title: A Multicentre, Randomized, Double Blind, Parallel Design, Placebo Controlled Study to Evaluate the Efficacy and Safety of Uthever™ NMN, an Orally Administered Supplementation in Middle Aged and Older Adults.

Enrollment: 66 participants

Intervention Model Description: A Multicenter, Randomized, Double-Blind, Placebo-Controlled



- Updated Progress

At present, Effepharm Ltd. has completed the first part of the NMN animal experiment-the acute toxicity test, which shows NMN is an ingredient with no acute toxicity. Human experiments are also in progress, and the subsequent series of data will provide NMN with more adequate proof of safety and efficacy.



- More Possibilities on NMN

At the same time, Effepharm is devoting to develop NMN's new functions, such as protecting our skin under UV damage, reducing obesity, and improving endurance performance, to help customers develop more markets in other fields.

Improving Endurance  
Performance



Reducing Obesity



Protecting from  
UV Damage

## ■ R&D



- The World's Top Research and Development Technology Support

GSK is a research-based pharmaceutical and healthcare company that has established itself as a world-class leader in both medicine and healthcare.

The R&D team of UTHEVER™ is led by post doctors from GSK in the United States, and has participated in many new drug researches, such as new anti-HIV drug Cabotegravir, gene drugs etc., so we have the world's top research and development technology support.

## ■ Production



- Experienced Production Management Team

Founded in 1911, Mars Wrigley is one of the world's largest food producers, with world-renowned brands and annual sales of more than \$30 billion.

UTHEVER™ production is led by senior managers at Mars with a complete production and quality control system under strict control, which optimizes the supply chain, reduces production cost and upgrades product competitive advantage.



## ■ USP Standard



- Scientific Quality Standard Setting Team

USP is the United States pharmacopoeia and the globally recognized quality standards agency that contains standards for medicines, dosage forms, bulk drugs, biologics, excipients, and food supplements.

Under the direction of former USP scientist, the quality of UTHEVER™ is measured in strict accordance with USP quality standards, and we have professionals to control the indicators to ensure 100% quality is verified.

# Turn-key Solution

With strong R&D background and market development ability, Effepharm provides customers with comprehensive solutions of NMN products, improves the supply chain demands and enables customers' products to adapt to more quickly market demand.

## ■ Scientific Team Support

The UTHEVER™ team at Effepharm can provide scientific guidance on dosages, dosage forms, functional claims, patent analysis, and stability data during product development.

## ■ Larger Brand Effect

UTHEVER™ is the first NMN brand raw material. With innovative R&D capability and high quality, it has attracted the attention of domestic and foreign media in the past two years and has been continuously recognized by domestic and foreign customers. Because UTHEVER™ not only brings customers the best raw materials, but also brings more attention and consumer recognition to their products.



## ■ Multi-field Market Expansion

We are also constantly developing new features to bring NMN to more markets, such as cosmetic industry. Our team will assist customers in developing new recipes and functions.

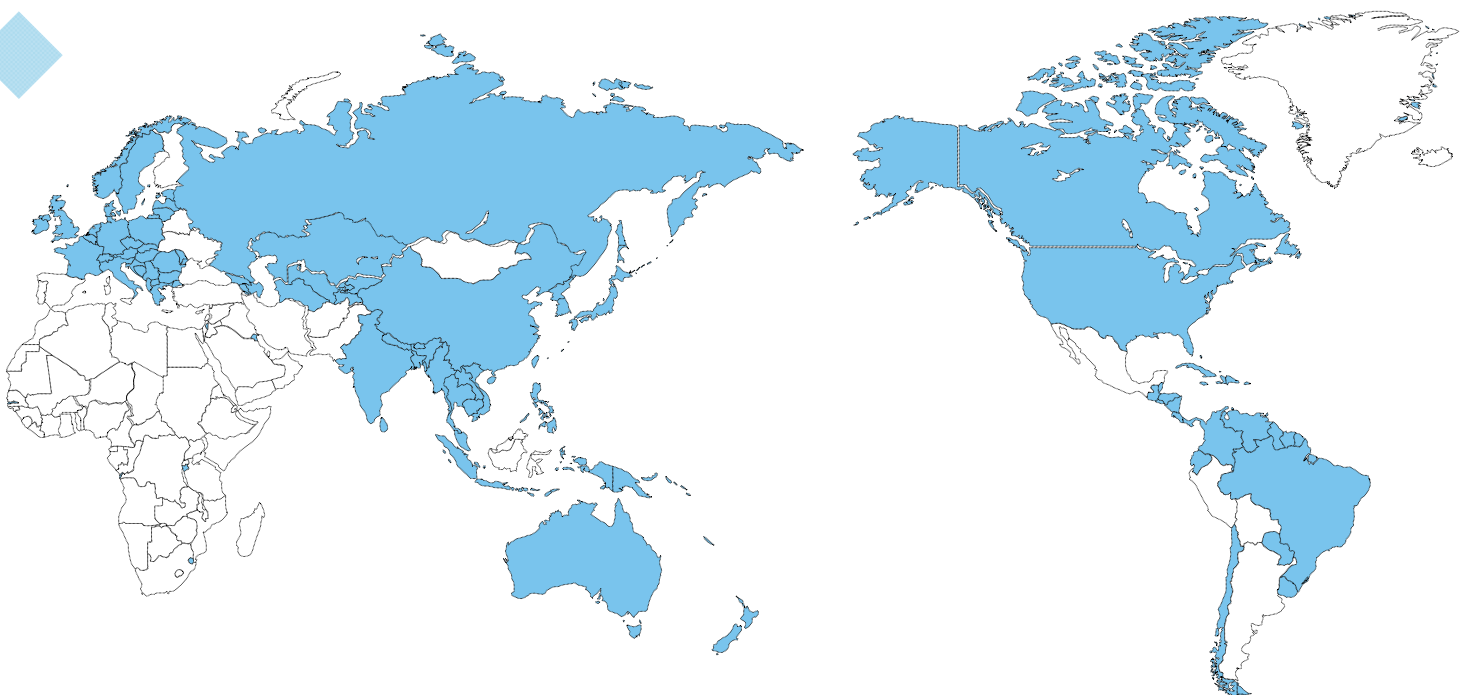
01 Domestic and foreign media interviews and exposure



02 Participating in the World Famous Health Exhibition



03 Analyze Potential Customers by Recruitment of UTHEVER™ Experiencers

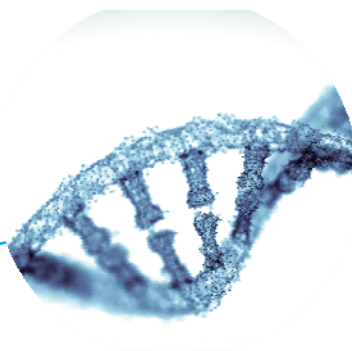


Global NMN User Distribution



# UTHEVER<sup>®</sup>

Youth Forever, World's Best NMN



UTHEVER<sup>™</sup>, Your Best Choice  
Witness High Quality NMN Together!

