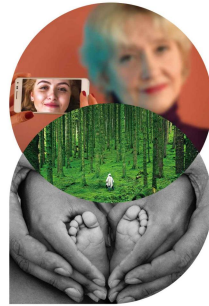


LANKANG

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山东蓝康生物科技有限公司 | ADD. 山东省淄博市临淄区凤凰镇 | Tel. 0533-7836999

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Shandong Lankang Biotechnology Co., Ltd. was established in July 2020 with a registered capital of RMB 50 million, mainly produces NMN, NAD⁺, NADH, NADP and NADPH series coenzyme products. It has the R&D and production capacity of the entire coenzyme industry chain. The company has a technical team consists of masters and doctors, and has a number of coenzyme invention patents. It is the first biomedical industry base with coenzyme as the core in China.

COMPANY PROFILE 企业简介

山东蓝康生物科技有限公司成立于 2020 年 7 月，注册资本 5000 万元。主要生产 NMN、NAD⁺、NADH、NADP 和 NADPH 系列辅酶产品。拥有数个辅酶产业链的研发和生产能力，公司现有多名硕士和博士学位的研发技术人员，并拥有多项辅酶发明专利，是我国第一个以辅酶研发和生产为核心的生物医药产业基地。



BRAND VISION

品牌愿景

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1 产业现状 Industry status

公司致力于成为国内首个以辅酶为核心的生物医药产业基地，可对行业技术进步产生巨大的带动作用，改变目前辅酶生产规模小、产品收率低、生产成本高等现状。

The company is committed to becoming the first domestic biopharmaceutical industry base with coenzyme as the core, which can play a huge role in promoting the technological progress of the industry and changing the current situation of small coenzyme production scale, low product yield and high production cost.

2 技术优势 Technical advantages

采用酶基因工程和酶固定化技术，实现了从原料到成品的全酶法生产工艺。已授权发明专利5项，新申请专利近10项，该工艺具有纯度高、成本低、无污染等优点，转化率85%左右，纯度能稳定在98%以上，得率可达80%。

Using enzyme gene engineering and enzyme immobilization technology, the holoenzyme method from raw material to finished product was realized. 5 invention patents have been authorized, and nearly 10 patents have been newly applied. The process has the advantages of high purity, low cost and no pollution. The conversion rate is about 85%, the purity can be stable at more than 98%, and the yield can reach 80%.

3 合作院校 Cooperative institutions

苏州大学药学院、苏州中药研究所、江西中医药大学固体制剂国家工程中心、中科院上海高等研究所等。
College of Pharmaceutical Sciences, Soochow University; Suzhou Institute of Traditional Chinese Medicine; National Engineering Center for Solid Preparations, Jiangxi University of Traditional Chinese Medicine; Shanghai Institute of Advanced Studies, Chinese Academy of Sciences, etc.

TEAM 团队资源 RESOURCES

首席科学家 Chief Scientist

- ◎ 2020年中国区神经科学领域“全球前2%顶尖科学家”
- ◎ NADPH系列专利发明者，苏州人本药业有限公司创始人；
- ◎ 苏州大学医学部基础医学与生物科学学院科研中心实验室主任；
- ◎ 中国药理学学会生化药理学专业委员会委员，中国药理学学会神经药理学专业委员会委员，美国神经科学学会
- ◎ 2020 "Top 2% of Global Top Scientists in the field of neuroscience in China;
- ◎ Inventor of NADPH series patent, founder of Suzhou Renben Pharmaceutical Co., LTD.;
- ◎ Director of Research Center Laboratory, School of Basic Medicine and Biological Sciences, Medical College of Soochow University;
- ◎ Member of Biochemical Pharmacology Committee, Chinese Pharmacological Society; Member of Neuropharmacology Committee, Chinese Pharmacological Society; Member of Society for Neuroscience.



秦正红
Qin Zhenghong



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PRODUCT MARKET

产品市场

据Euromonitor统计数据，截至2021年，全球消费者保健品行业规模已达2,732.42亿美元。其中，美国市场规模为852.98亿美元，占全球市场的31.22%，位列全球第一；中国市场规模为485.36亿美元，占全球市场的17.76%，位列第二。预计，2025年，我国消费者保健品行业规模有望达到624.01亿美元且保持超6%的行业增长水平持续向阳发展。

According to Euromonitor data, as of 2021, the scale of global consumer health products industry has reached \$273.242 billion. Among them, the scale of the US market was \$85.298 billion, accounting for 31.22% of the global market, ranking first in the world; the scale of the Chinese market was \$48.536 billion, accounting for 17.76% of the global market, ranking at the second place. It is estimated that in 2025, the scale of Chinese consumer health care products industry is expected to reach \$62.401 billion and keep an industry growth rate of over 6%.



NMN市场起步较晚，自2016年正式推出商业化产品，当前NMN市场主要被日本新兴和公司、美国Herbalmax公司和香港港基固基公司三家企业垄断。

The NMN market is a new one, since the official launch of commercial products in 2016, the current NMN market is mainly monopolized by three companies: MIRALAB BIOSCIENCE Inc., Herbalmax and GeneHarbor(Hong Kong) Biotechnologies Ltd.

※ 辅酶是一类可以将化学基团从一个酶转移到另一个酶上的有机小分子，与酶较为松散地结合，对于特定酶的活性发挥是必要的。这些化合物大部分无法由人体合成，必须通过饮食补充。

※ 人体内一共有近20种辅酶，辅酶 I NAD⁺负责产生体内95%以上的能量，并调控人体数百项代谢反应。

※ Coenzymes are a class of small organic molecules that can transfer chemical groups from one enzyme to another. They are loosely bound to the enzyme and are necessary for the activity of a specific enzyme. Most of these compounds can't be synthesized by the body and must be supplemented through diet.

※ There are nearly 20 kinds of coenzymes in the human body. Coenzyme I NAD⁺ is responsible for producing more than 95% of the energy in the body and controlling hundreds of metabolic reactions in the human body.



PRODUCT INTRODUCTION

产品简介



NR

是烟酰胺核糖英文缩写，NR是一种重要的辅酶前体，可以促进心脏、心脏和大脑健康，改善脂肪代谢，提高身体的活力，同时还有抗疲劳和美容的作用。

It's short for nicotinamide riboside, NR is an important coenzyme precursor, which can delay aging, improve cardiovascular and brain health, improve fat metabolism, improve the body's vitality, and also has the effect of drug rehabilitation and beauty.



NMN

β-烟酰胺单核苷酸是辅酶 I 的直接前体物质，可以增强记忆力，强化心血管功能，提高免疫力，改善睡眠质量，全方位提高身体机能，使身体更年轻态。

β-nicotinamide mononucleotide is the direct precursor of coenzyme I, which can strengthen memory, strengthen cardiovascular function, improve immunity, improve sleep quality, improve body function in all aspects, and make the body more youthful.



NAD⁺

烟酰胺腺嘌呤二核苷酸，简称为辅酶 I，在体内的代谢物是辅酶 II。辅酶 I 和辅酶 II 不仅在大脑中起着重要作用，而且在调节和信号传导方面起着重要作用。还有降低心脏胆固醇氧化应激，调节心肌能量代谢和抗炎等的重要功能。

Nicotinamide adenine dinucleotide, referred to as coenzyme I, in the body's metabolism of substances such as coenzyme II. Nicotinamide and nicotinamide, not only in the human body play an important role, but also in the regulation and signaling pathway play an important role, and to enhance heart tolerance oxidative stress, regulate myocardial energy metabolism and anti-inflammatory and other important functions.



NADP

烟酰胺腺嘌呤二核苷酸磷酸，也曾称为三磷酸吡啶核苷酸 (TPN)，是辅酶 I 和辅酶 II 的氧化还原剂，参与人体多种合成代谢反应，可用于治疗恶性肿瘤白血病、急性和慢性白血病、淋巴细胞白血病、淋巴瘤、淋巴瘤及其他各种癌症。

Nicotinamide adenine dinucleotide phosphate, also known as pyridine nucleotide phosphate (TPN) or nicotinamide phosphate. Nicotinamide phosphate participates in a variety of anabolic reactions and is used to treat acute lymphoblastic leukemia, acute myelogenous leukemia, Hodgkin's and non-Hodgkin's lymphoma, and various other cancers.



NADH

还原性辅酶 I 是烟酰胺腺嘌呤二核苷酸的还原态，NADH 不仅能够为细胞提供多倍能量，还能提高免疫力，改善人体的新陈代谢，缓解人体长期工作的疲劳，而且保护人体，避免为急性的病毒感染，更好地调节免疫系统的分泌，以改善人的情绪、敏感性和性欲，甚至还能降低胆固醇和血压。

Reduced coenzyme I is the reduced state of nicotinamide adenine dinucleotide. NADH is not only able to provide more energy for cells, make the cells full of vitality, improve the metabolism of the human body, and relieve the fatigue of the human body from long-term work, protect the body from the harmful effects of pollution and stimulates the production of hormones that improve mood, sensitivity and libido. It can even lower cholesterol and blood pressure.



NADPH

还原性辅酶 II 是烟酰胺腺嘌呤二核苷酸磷酸的还原态，NADPH 不仅能够为细胞提供多倍能量，还能提高免疫力，改善人体的新陈代谢，缓解人体长期工作的疲劳，而且保护人体，避免为急性的病毒感染，更好地调节免疫系统的分泌，以改善人的情绪、敏感性和性欲，甚至还能降低胆固醇和血压。

Reduced coenzyme II is the reduced state of nicotinamide adenine dinucleotide phosphate. NADPH is not only able to provide more energy for cells, make the cells full of vitality, improve the metabolism of the human body, and relieve the fatigue of the human body from long-term work, protect the body from the harmful effects of pollution and stimulates the production of hormones that improve mood, sensitivity and libido. It can even lower cholesterol and blood pressure.



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NR

产品名称	烟酰胺核糖 (氯化物)
CAS 号	1341-23-7
分子式	$C_{11}H_{13}N_2O_5$
分子量	256.26
外观	白色粉末
纯度	≥ 99%
含量 (折干)	≥ 99%
水分	≤ 2%
产品用途	<ul style="list-style-type: none"> ● 用作保健品或食品添加剂 ● 用作 NMN (β-烟酰胺单核苷酸) 的合成 ● 帮助人体抗衰老 ● 降低胆固醇 ● 控制高血压 ● 利于缓解阿尔茨海默症 ● 帮助控制肥胖



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NR

Product Name	Nicotinamide Ribose (chloride)
CAS NO.	1341-23-7
Molecular Formula	$C_{11}H_{13}N_2O_5$
Molecular Weight	256.26
Appearance	White Powder
Purity	≥ 99%
Content (dried)	≥ 99%
Moisture	≤ 2%
Product Usages	<ul style="list-style-type: none"> ● Used as health products or food additives ● Synthesis of NMN (β-nicotinamide mononucleotide) ● Help on human Anti-aging ● Lower high cholesterol ● Control high blood pressure ● Help alleviate Alzheimer's disease ● Help to control obesity



NMN

产品名称	烟酰胺单核苷酸
CAS 号	1094-61-7
分子式	$C_{17}H_{23}N_5O_6P$
分子量	334.2
外观	白色粉末
纯度	≥ 99%
含量 (折干)	≥ 99%
水分	≤ 2.0%
产品用途	<ul style="list-style-type: none"> ● 保健品研究 ● 功能饮料研究 ● 化妆品原料 ● 稳定的 NAD⁺ 活化剂 ● 抗衰老 ● 膳食补充剂 ● 增进健康



NMN

Product Name	Nicotinamide mononucleotide
CAS NO.	1094-61-7
Molecular Formula	$C_{17}H_{23}N_5O_6P$
Molecular Weight	334.2
Appearance	White powder
Purity	≥ 99%
Content (dried)	≥ 99%
Moisture	≤ 2.0%
Product Usages	<ul style="list-style-type: none"> ● Research on health care products ● Research on Functional drinks ● Raw materials for cosmetics ● Reliable NAD⁺ Activator ● Anti-aging ● Dietary Supplement ● Health-Enhancing



NAD⁺

产品名称	烟酰胺腺嘌呤二核苷酸 (氧化型辅酶 I)
CAS 号	53-84-9
分子式	$C_{21}H_{27}N_7O_7P_2$
分子量	663.4
外观	淡黄色冻干粉末
纯度	≥ 98%
含量 (折干)	≥ 97%
水分	< 7.0%
产品用途	<ul style="list-style-type: none"> ● 生化诊断试剂原料 ● 生物催化中的酶催化原料 ● 保健品、高端保健品原料 ● 医疗应用 ● 精细化工 ● 食品领域添加剂等



NAD⁺

Product Name	Nicotinamide Adenine Dinucleotide (Oxidized coenzyme I)
CAS NO.	53-84-9
Molecular Formula	$C_{21}H_{27}N_7O_7P_2$
Molecular Weight	663.4
Appearance	Pale yellow lyophilized powder
Purity	≥ 98%
Content (dried)	≥ 97%
Moisture	< 7.0%
Product Usage	<ul style="list-style-type: none"> ● Raw materials for biochemical diagnostic reagents ● Enzyme catalysis raw materials in biocatalysis ● Health products, raw materials for high-end health products ● Medical applications ● Fine chemical industry ● Additive of food fields, etc



NADH

产品名称	还原型烟酰胺腺嘌呤二核苷酸 (还原型辅酶 I)
CAS 号	606-68-8
分子式	$C_{21}H_{27}N_7O_{14}P_2 \cdot 2Na$
分子量	709.4
外观	灰白色至淡黄色冻干粉末
纯度	≥ 97%
含量 (折干)	≥ 95%
水分	≤ 5.0%
产品用途	<ul style="list-style-type: none"> ● 是多种检测试剂的配方原料 ● 制作保健品 ● 用于医药中间体原料药合成 ● 是人体必需的营养素 ● 提高思维清晰度、警觉性、注意力和记忆力 ● 治疗阿尔茨海默病和高血脂 ● 改善运动能力和慢性疲劳综合征 (CFS) ● 治疗高血压、胆固醇、时差、抑郁、帕金森 ● 减轻酒精对肝脏的影响 ● 延缓衰老 ● 预防艾滋病药物齐多夫定 (AZT) 的副作用



NADH

Product Name	Nicotinamide Adenine Dinucleotide (Reduced coenzyme I)
CAS NO.	606-68-8
Molecular Formula	$C_{21}H_{27}N_7O_{14}P_2 \cdot 2Na$
Molecular Weight	709.4
Appearance	Off-white to pale yellow lyophilized powder
Purity	≥ 97%
Content (dried)	≥ 95%
Moisture	≤ 5.0%
Product Usage	<ul style="list-style-type: none"> ● It is the formula raw material of various detection reagents ● Making health products ● For the synthesis of pharmaceutical intermediates and APIs ● It is an essential coenzyme in the body ● Improving mental clarity, alertness, concentration, and memory ● Treating Alzheimer's disease and dementia ● Improving athletic performance and treating chronic fatigue syndrome (CFS) ● Treating high blood pressure, high cholesterol, jet lag, depression, and Parkinson's disease ● Opposing alcohol's effects on the liver ● Reducing signs of aging ● Protecting against the side effects of an AIDS drug called zidovudine (AZT)



NADP

产品名称	烟酰胺腺嘌呤二核苷酸磷酸 (氧化型辅酶 II)
CAS 号	24292-60-2
分子式	$C_{21}H_{26}N_7O_{15}P_3 \cdot 2Na$
分子量	787.37
外观	白色或类白色冻干粉末
纯度	≥ 97%
含量 (折干)	≥ 90%
水分	< 7.0%
产品用途	<ul style="list-style-type: none"> ● 制造生物化学研究、诊断试剂 ● 作为医药原料及中间体生产中的辅酶 ● 医药 ● 保健品 ● 化妆品领域 ● 提高免疫力 ● 适用人群 / 情况: 健身人群、体弱者 (老年人、病后 / 术后人群)、慢性疲劳、增强免疫力 ● 适用人群 / 情况: 敏感人群。 ● 伤口修复 ● 适用人群 / 情况: 口腔溃疡、破损皮肤损伤、术后伤口恢复。 ● 时差 ● 适用人群 / 场合: 跨时区的商务旅客。



NADP

Product Name	Nicotinamide Adenine Dinucleotide Phosphate (Oxidized coenzyme II)
CAS NO.	24292-60-2
Molecular Formula	$C_{21}H_{26}N_7O_{15}P_3 \cdot 2Na$
Molecular Weight	787.37
Appearance	White or off-white lyophilized powder
Purity	≥ 97%
Content (dried)	≥ 90%
Moisture	< 7.0%
Product Usage	<ul style="list-style-type: none"> ● Manufacture biochemical and pharmaceutical research, diagnostic kits ● Coenzyme factors in the production of pharmaceutical raw materials and intermediates ● Medicine ● Health care products ● Cosmetic field ● Improve physical fitness Applicable people/situation: fitness people, weak (elderly people, people after illness/post-operation), chronic fatigue. ● Enhance immunity Applicable people/situation: people who are susceptible to colds. ● Wound repair Applicable people/situation: oral ulcers, broken skin injuries, postoperative wound recovery. ● Jet lag Applicable people/situation: business travelers across time zones.



NADPH

产品名称	还原型烟酰胺腺嘌呤二核苷酸磷酸 (还原型辅酶 II)
CAS 号	2646-71-1
分子式	$C_{21}H_{26}N_{10}O_{14}P_3 \cdot 4Na$
分子量	833.4
外观	白色或类白色冻干粉末
纯度	≥ 97%
含量 (折干)	≥ 95%
水分	< 7.0%
产品用途	<ul style="list-style-type: none"> ● 科研试剂、诊断试剂的制备； ● 抗疲劳、抗氧化、保护心血管保健原料； ● 膳食补充剂、食品添加剂、食品； ● 开发治疗神经和神经退行性疾病的药物； ● 开发功能饮料； ● 化妆品原料； ● 调节氧化应激和昼夜节律，维持 DNA 健康，让身体健康更长久； ● 参与体内能量代谢和细胞代谢，有利于细胞修复和再生。



NADPH

Product Name	Nicotinamide Adenine Dinucleotide Phosphate (Reduced coenzyme II)
CAS NO.	2646-71-1
Molecular Formula	$C_{21}H_{26}N_{10}O_{14}P_3 \cdot 4Na$
Molecular Weight	833.4
Appearance	White or off-white lyophilized powder
Purity	≥ 97%
Content (dried)	≥ 95%
Moisture	< 7.0%
Product Usage	<ul style="list-style-type: none"> ● Preparation of scientific research reagents, diagnostic reagents; ● Raw materials for anti-fatigue, anti-oxidation, and vascular protection health care products; ● Dietary Supplement, Food additive, Food; ● Develop treatment drugs for stroke and Parkinson's disease; ● Develop energy drinks; ● Raw materials for cosmetics; ● Regulate oxidative stress and circadian rhythm, maintain the health of DNA, and keep the body healthy for a longer time; ● Participate in energy metabolism and material metabolism in the body, which is conducive to cell repair and regeneration.



BUSINESS DIRECTION

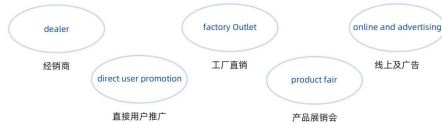
经营方向



客户锁定 customer lock-in



销售方式 method of sales



Under 1kg

Between 1kg and 24kg

Above 25kg




LOOKING AHEAD

展望未来

“

项目建成后将优化当地产业结构，为“新医药”产业规模化发展起到积极推动作用，带动当地经济发展，增加财政收入，为当地提供更多高质量就业机会，为促进区域大健康产业建设及高质量发展提供重要支撑。

After the project is completed, the local industrial structure will be optimized, it plays an active role in promoting the scale development of "new medicine" industry, drive local economic development and increase fiscal revenue, provide more high-quality employment opportunities for the local, and provide important support for promoting the construction and development of the enlarged health industry.

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包装 & 运输



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DHL	3-10 days	Door to Door Service
Air transport	3-7 days	High Speed
Sea transport	30 days	Affordable