

瑞吉明 (山东) 生物科技有限公司

RuiJiMing (Shandong) Biotechnology Co.,Ltd.

分析报告 Certificate of Analysis

记录编号: QC/SOP FP-021-R02-CE 版本号: V00 型号 产品名称 多 (聚) 核苷酸(PN) **RJMPN-CE** Product Name Polynucleotide(PN) Model NCI 名称 DNA 钠 级别 化妆品级 INCL Name SODIUM DNA Grade Cosmetic grade 取材 批号 雄性鲑鱼 (三文鱼) Materials 70696 Male Salmon Batch No. 生产日期 复验日期 Retest Date Manufacture Date 报告日期 检验日期 Test Date Report Date 《多 (聚)核苷酸(PN)质量标准 V01 版》 检验依据 Testing Standard Polynucleotide(PN) quality standard V01 version

检验项目 TEST ITEMS	标准规定 STANDARD CODE	检验结果 RESULTS
外观 Appearance	白色,类白色或淡黄色粉末或纤维状固体 White, white-like or yellowish powder or fibrous solid	
溶解度 Solubility	微溶于水 Slightly soluble in water	
鉴别 Identification	260nm 与 280nm 处吸光度的比值 1.5-2.0 UV:Ratio of absorbance at 260 and 280nm 1.5-2.0	
pH 值(0.1%水溶液) pH value(0.1% aqueous solution)	5.0-9.0	
干燥失重 Loss on drying	≤20.0%	
含量 (按干燥品计) Assay (dry goods)	≥90.0%	
平均分子量 Average molecular weight	≥1000KD	
铅 Lead	≤10mg/kg	
镉 Cadmium	≤5mg/kg	
砷 Arsenic	≤2mg/kg	
汞 Mercury	<pre><1mg/kg</pre>	
菌落总数 Aerobic bacterial count	≤1000CFÛ/g ((((((((((((((((((((((((((((((((((((
霉菌和酵母菌总数 Molds and Yeast count	≤100CFU/g 质检专用章	
耐热大肠菌群 Thermotolerant coliform bacteria	不得检出/g Negative/g	
金黄色葡萄球菌 Staphylococcus aureus	不得检出/g Negative/g	
铜绿假单胞菌 Pseudomonas aeruginosa	不得检出/g Negative/g	
结论 Conclusion	本品按《多(聚)核苷酸(PN)质量标准 V01 定。 The product was tested according to <i>Polynucle</i> <i>V01 version</i> , and the results were in conformity	eotide(PN) quality standard

报告人 Reported by:

复核人 Checked by:

批准人 Approved by:







Polynucleotide (PN)

Chemicals Technical Data Sheet (TDS)

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1. Manufacturer informatio	n
100	Kuijiming (Shandong) Biotechnology Co., LTD
Address 43033	Building 10,Shandong International Biotechnology Park,High-tech Zone,YanTaiCity,Shandong
Address	Province, China
2. Product Information	
Product model	RJMPN-CE
INCI name	SODIUM DNA
content	≥90.0%
3. Physical and chemical p	roperties
Appearance	White, like white or light yellow powder or fibrous solid
Smell	Having a characteristic smell or tastelessness
Solubility	Slightly soluble in water
4. Product application	
The main application	Cosmetics, medical beauty products
Mechanism	The mechanism of PN is to bind to adenosine A2A receptor, activate skin regeneration, promote the release of epidermal cell growth factor (EGF) and vascular endothelial cytokine (VEGF), and accelerate wound repair and healing. Inhibit the secretion of proinflammatory cytokines and have anti-inflammatory effects.
Main functions	Stimulate collagen and elastic fiber regeneration, repair damaged cells, promote skin regener -ation, it can change the internal environment of human skin, and effectively eliminate the root cause of inflammation, continue to play an anti-inflammatory repair role; Helps form a three-dimensional moisturizing net on the skin, continuously releases the continuous moist -urizing force, but also has the ability to reduce the damage of ultraviolet rays on the skin, repair acne, improve skin dullness.
Recommended addition	0.01%-1.5%
5. Packaging and storage	
Packaging	Solids: 20g/ bottle or 50g/ bottle; Or according to customer needs
Cosmetic expiration date	Expiration date: 2 years
and storage	Storage: cool place, sealed away from light, away from heat and fire.
6. Others	
Compatibility attention	1) This product is not resistant to strong acid, strong base and strong oxidant, and the main component of the preservative alcohol can be compatible, if the alcohol is added within the national standard, there will be no precipitation. If the alcohol exceeds the standard seriously, it may precipitate; 2) The solid powder is difficult to dissolve in the normal saline solution, and the product should be
	mixed with other materials after being dissolved separately.

Ruijiming (Shandong) Biotechnology Co., Ltd

Address: Room 501, building 10, Shandong International Biological Park, High tech Zone, Yantai City, Shandong Province, China







Material Safety Data Sheet (MSDS)

1. Chemical and enterprise identification

71.	
Product name	Polynucleotide (PN)
Product model	RJMPN-CE
Company name	Ruijiming (Shandong)Biotechnology Co., LTD
	Building 10,Shandong International Biotechnology Park,High-tech Zone,
Address	YanTai City,Shandong Province,China
Composition	SODIUM DNA

2. Overview of hazard

Hazard category	This product is nucleic acid product, used for cosmetics production.
Invasion route	Ingestion, Inhalation
Health hazard	Reasonable use does not pose a health hazard.
Environmental hazard	No environmental hazards.
Combustion hazard	This product is not flammable and explosive.

3. First aid measures

Skin contact	Normal contact with no harm, if allergic reaction, wash with soapy water or water.
Eye contact	If you feel uncomfortable, lift your eyelids and rinse with water or saline.
Inhalation	If inhaled, if you feel unwell, seek medical advice immediately.
Ingestion	In case of accidental ingestion, rinse your mouth with plenty of water. If you feel unwell, seek medical advice immediately.

4. Fire protection measures

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Hazardous characteristics	This product belongs to nucleic acid, no dangerous characteristics.
Hazardous Combustion Products	Nothingness
Method of extinguishing	Use water mist, sand, dry powder or carbon dioxide extinguisher to extinguish fire.

5. Emergency handling of leakage

5. Emergency management and the second secon	
Emergency Treatment	Small leaks: Wipe with a dry cloth or paper towel and clean the leak
	with water.
	Massive leakage: collect the leakage as much as possible, transport it to
	the waste disposal site with plastic buckets for disposal, and clean the
	leakage site with water.

6. Operation, disposal and storage





	To avoid damage to the packaging and storage containers, please
	unload them lightly during handling.
Precautions for	Prohibit eating and drinking in the workplace. Keep away from heat
operation and disposal	source and fire. No smoking in workplace.
	Equipped with emergency leak handling equipment and corresponding
	number of fire extinguishers.
	Store in cool and ventilated place, keep container tightly closed.
	The packages should be arranged neatly.
Safe storage conditions	It should be stored separately from oxidizer and edible chemicals.
	The storage area shall be equipped with leakage emergency treatment
	equipment and suitable storage materials.

7. Contact control/personal protection

7. Comact control/perso	nai protection
Engineering control	Work place should be separated from other work place, strengthen
	ventilation. Set up emergency evacuation channel and necessary danger
	escape area.
	Provide safe shower and eye wash equipment
Respiratory protection	Wear a suitable protective mask
Eye protection	Wear protective glasses
Body protection	Ware protective clothes
Hand protection	Wear rubber gloves
Other safety protection	Smoking, eating and drinking are prohibited in the workplace

8. Physical and chemical properties

o. Thysical and ellermout properties		
Appearance and character	White, like white or light yellow powder or fibrous solid	
Solubility	Slightly soluble in water	
PH (0.1%Aqueoussolution)	5.0-9.0	
Molecular weight	≥1000KD	
PN Content	≥90.0%	
Drying loss	≤20.0%	

9. Stability and reactivity

Stability	stabilize
Contraindicated compound	Strong acid, strong base, strong oxidizer
Avoid contact conditions	High heat, open fire, humidity
Polymer	No information
Decomposition product	No information

10. Toxicological information

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Acute toxicity	According to the data, the LD ₅₀ of rats by oral route is ≥5000 mg/kg,
	which indicates that the product is nontoxic.
Chronic toxicity	No information
Carcinogenicity	No information

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Add:Building 10, Shandong International Biotechnology Park, High-tech Zone, Yan Tai

City, Shandong Province, China





Teratogenicity	No information
Mutagenicity	No information
Irritability	No skin irritation, no acute eye irritation
Sensitization	No skin sensitization

11. Ecological information

Ecotoxicological toxicity	No information
Potential for bioaccumulation	No information
Biodegradability and non-biodegradability	No information

12. Waste disposal

Precautions for Abandonment	Refer to relevant national and local regulations before disposal
Waste disposal method It is recommended to dilute with a large amount of water enter the pollution treatment station for further disposal	

13. Shipping information

United Nations	No information	
Dangerous Goods Code	NO IIIIOIIIIatioii	
HS CODE	No information	
Packing mark	No information	
Categories of packing	No information	
Packaging code number	No information	
The rules page of	No information	
IMDG		
	The product in the process of transportation, to maintain the sealing of	
Transportation	the product, to avoid product leakage, transportation process to	
Precautions	maintain low temperature cold chain transportation, transportation	
	should avoid high temperature exposure, avoid violent collision.	

14. Regulatory information

Regulations on the Safety Management of Dangerous Chemicals.Detailed rules for the implementation of the Regulations on the Safety Management of Chemical Hazardous Substances.Regulations for safe use of chemicals in the workplace.

15. Other information

Nothingness



瑞吉明(山东)生物科技有限公司

RuiJiMing (Shandong) Biotechnology Co.,Ltd.

产品规格书

SPECIFICATION

TO B	11		
产品名称	多(聚)核苷酸(PN)	级别	化妆品级
Product Name	Polynucleotide (PN)	Grade	Cosmetic grade
INCI 省称303	DNA 钠	文件编号	SPE-RJMPN-CE
INCI Name	SODIUM DNA	Document No.	DI LI TWILL TO CE
		版本	V01
	《多(聚)核苷酸(PN)质量标准	Version	7 01
标准依据	V01版》	颁发部门	质量部
Based on the standard	Polynucleotide (PN) quality	Issuing Department	Quality department
	standard V01 version	生效日期	2024.03.16
		Effective Date	2024.03.10

项目	标准	方法
Items	Standard	Methods
外观 Appearance	白色,类白色或淡黄色粉末或纤维状固体 White, white-like or yellowish powder or fibrous solid	目测 Visual inspection
溶解度 Solubility	微溶于水 Slightly soluble in water	Ch.P
鉴别 Identification	紫外分光光度法 A260/A280 在 1.5~2.0 Ultraviolet spectrophotometry A260/A280 in 1.5~2.0	Mandong Blotechnology 生物科技有限 (加索)生物科技有限 质检专用章
pH 值 (0.1%水溶液) pH value (0.1% aqueous solution)	5.0~9.0	Ch.P 0631
干燥失重 Loss on drying	≤20.0%	Ch.P 0831
含量(按干燥品计) Assay(dry goods)	≥90.0%	GB/T34796-2017
平均分子量 Average molecular weight	≥1000KD	Ch.P 0633

瑞吉明(山东)生物科技有限公司 地址: 山东省烟台市高新区山东国际生物园 10号楼 501室

电话: 0535-3940102 邮箱: rjmsw666@163.com





受控文件

铅 Lead	≤10mg/kg	化妆品安全技术规范 Cosmetics Safety Technical Regulations
镉 Cadmium	≤5mg/kg	化妆品安全技术规范 Cosmetics Safety Technical Regulations
砷 Arsenic	≤2mg/kg	化妆品安全技术规范 Cosmetics Safety Technical Regulations
汞 Mercury	≤1mg/kg	化妆品安全技术规范 Cosmetics Safety Technical Regulations
菌落总数 Aerobic bacterial count	≤1000CFU/g	化妆品安全技术规范 Cosmetics Safety Technical Regulations
霉菌和酵母菌总数 Mold and Yeast Count	≤100CFU/g	化妆品安全技术规范 Cosmetics Safety Technical Regulations
耐热大肠菌群 Thermotolerant coliform	不得检出/g Negative/g	化妆品安全技术规范 Cosmetics Safety Technical Regulations
金黄色葡萄球菌 Staphylococcus aureus	不得检出/g Negative/g	化妆品安全技术规范 Cosmetics Safety Technical Regulations
铜绿假单胞菌 Pseudomonas aeruginosa	不得检出/g Negative/g	化妆品安全技术规范 Cosmetics Safety Technical Regulation

贮存条件: 阴凉处、避光、密封保存。

Storage Conditions: Store in a shaded, light-protected, and airtight condition.

有效期: 2年

Expiration Date:2 years.

编制人 Reported by:

史滕縣

复核人 Checked by:

岛强和

批准人 Approved by:

瑞吉明(山东)生物科技有限公司 地址: 山东省烟台市高新区山东国际生物园 10 号楼 501 室

电话: 0535-3940102 邮箱: rjmsw666@163.com

