

澳兴生物

AOXIN BIOTECHNOLOGY

http://www.aoxin-group.com　　http://www.js-aoxin.com

以人类健康事业为己任　为人类健康尽绵薄之力

Take the cause of human health as our mission
Strive to make contribution to human health

愿景

成为一个有活力，让雇员富有激情，时刻响应顾客需求的企业，
造福我们的客户、员工和社会

To be a dynamic, passionate and responsive company for the benefit of our customers, employees and society.

宗旨

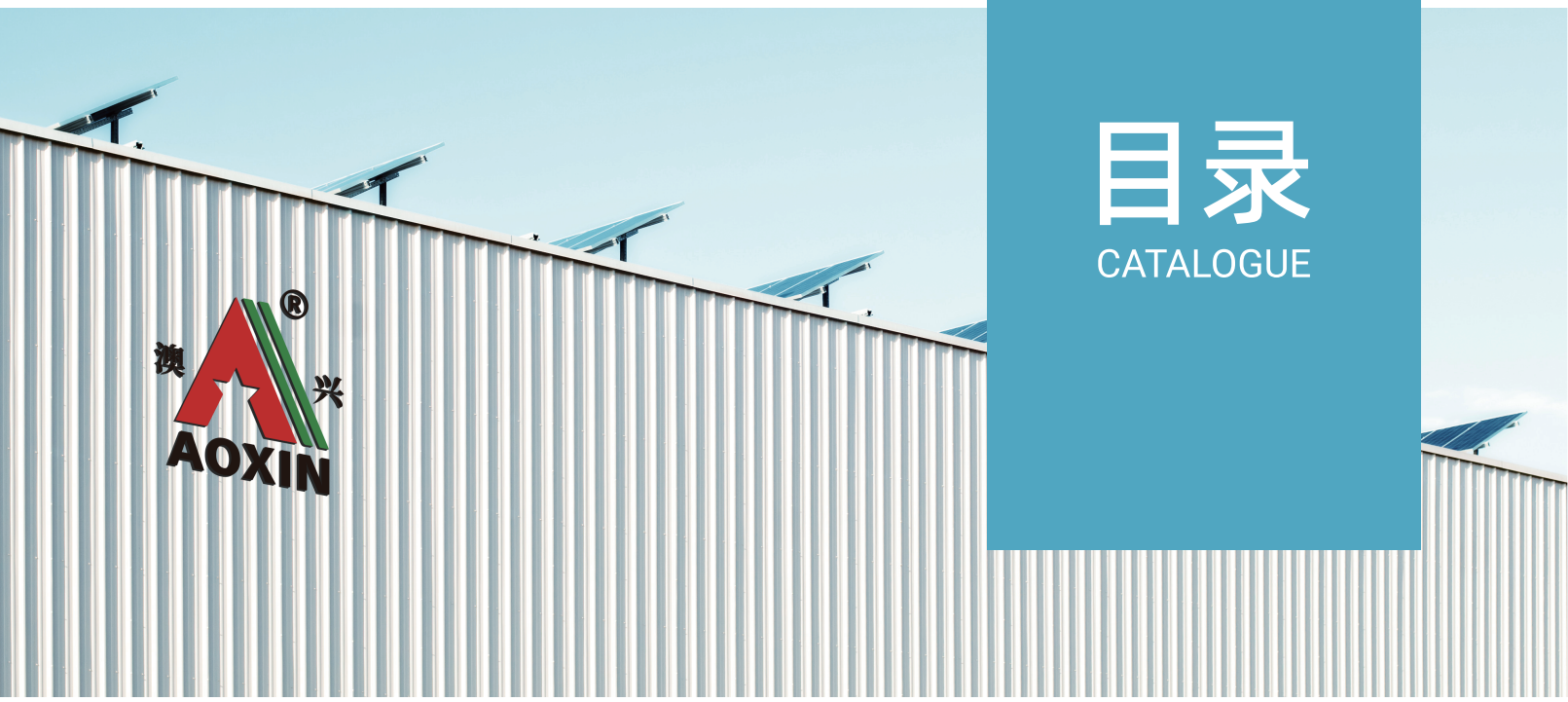
以优质的产品，最具竞争力的价格，可靠的服务和创新的方法
成为这个行业的领导者

To be a leading manufacturer in this industry by quality products, competitive prices, reliable services and innovative R&D.

理念

质量是关键，满足客户的需求是我们的目标，科技是我们的力量

Quality is the key, meeting customer demand is our goal,and technology is our strength.



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集团简介
GROUP PROFILE

AOXIN 始建于 1997 年，是国内最早从事海洋生物制品研究及其衍生物合成的企业之一，目前已发展到涉及保健品食品原料、医药原料、医疗器械、化妆品原料、农业生物刺激素原料等领域的综合性大健康产业公司，是国内最大的甲壳素衍生物生产企业之一。

其贸易范围覆盖美国、加拿大、澳洲、日本、欧洲等 50 多个国家和地区，已形成全球工厂及贸易一体化的发展形态。

Founded in 1997, Aoxin Biotechnology is one of the earliest enterprises engaged in marine biological products research and its derivatives manufacturing in China. Aoxin has developed into a comprehensive health industry company involving in ingredients for dietary supplement and food products, active pharmaceutical ingredients, medical devices, cosmetic ingredients, agricultural additives and etc, who is one of the largest chitin derivative manufacturers in China.

Aoxin has exported to more than 50 countries and regions such as the United States, Canada, Australia, Japan and Europe, and has formed the development form of global factory and trade integration.





集团发展历史
GROUP MILESTONE

浙江澳兴生物科技有限公司

江苏澳新生物工程有限公司

THE HEALTHCARE WAREHOUSE LIMITED

武汉奥绿新生物科技有限公司

上海剑本进出口有限公司

JBAOXIN HEALTH & CO INC

澳新健康科技有限公司

印度剑本进出口有限公司

1996 年 丨 成立浙江澳兴生物科技有限公司
2004 年 丨 成立江苏澳新生物工程有限公司
2010 年 丨 成立英国分公司 THE HEALTHCARE WAREHOUSE LIMITED
2012 年 丨 成立武汉奥绿新生物科技有限公司 （澳新集团开始迈入医疗行业）
2015 年 丨 成立上海剑本进出口有限公司 （标志着澳兴集团全球贸易一体化的开始）
2016 年 丨 成立美国分公司 JBAOXIN HEALTH & CO INC
2016 年 丨 成立杭州澳新健康科技有限公司 （澳新集团开始提供从原料生产到终端成品的一站式服务）
2017 年 丨 成立澳洲分公司 Nutriwarehouse Pty Ltd.
2019 年 丨 成立印度分公司 Jianben import and export India private limited
2020 年 丨 成立江苏澳然药业有限公司 （澳新集团正式开始迈入药品生产阶段）
2023 年 丨 未完待续 ……

企业文化及荣誉
CORPORATE CULTURE AND HONOR

实践、卓越、人本、责任是我们的企业文化。团结奋进的澳兴人始终坚持：“质量第一，客户至上”的原则，以优质的产品开拓市场，以良好的信誉赢得客户。同时澳兴集团还致力于关爱大众健康，倡导节能、节约可持续发展，对环境友好的社会责任。希望为我们的客户，员工和社会贡献一份力量。

Over years development, Aoxin has formed our own corporate culture: Practice, Excellence, Human-Oriented and Responsibility. AOXIN people always adhere to the principle of "quality first, customer priority", enlarge market share by high-quality products, and win customers by reputation. At the same time, Aoxin Group is also committed to make contribution to public health, advocating energy saving, sustainable development and environmental friendly social responsibility. We always share our responsibility to our customers, employees and society.

- 2009- 市高新技术企业及省科技型中小企业
  2009- Municipal high-tech enterprises and provincial high-tech smes
- 2015- 国家高新技术企业
  2015- National high-tech Enterprise
- 中试基地 - 建立武汉大学甲壳素衍生物中试基地和江苏省海洋资源研究院中试基地
  Pilot base - Set up the pilot base of chitin derivatives of Wuhan University and the pilot base of Marine Resources Research Institute of Jiangsu Province
- 市省级研发中心 - 拥有一个市级和省级甲壳素衍生物工程研发中心
  Provincial R & D Center - has a municipal and provincial chitin derivative engineering R & D center

德国 TUV 认证　中国高新技术　出口欧盟食品　国家药品生产许可证　ISO 22000 认证

NSF 认证　食品生产许可证　FDA 认证　HALAL 认证　ISO 9001 认证


Certificate

Standard ISO 9001:2015
Certificate Regist. No. 01 100 1325580

Certificate Holder:
Jiangsu Aoxin Biotechnology Co., Ltd.
Unified Social Credit Code: 91320700691208888
Registration Address: No. 2, Linpu Road, Dapu Industrial Area, Lianyungang Development Zone, Lianyungang City, Jiangsu Province 222006, P. R. China
Operation Address: same as above

Scope: Manufacturing of Glucosamine Series Products (Glucosamine Hydrochloride and Glucosamine Sulfate Potassium Chloride), Glucosamine Sulfate Sodium Chloride and N-Acetylglucosamine (Only for Overseas Sales), Chondroitin Sulfate Sodium (Only for Overseas Sales), Fish Collagen and Chitosan

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity: The certificate is valid from 2018-08-01 until 2018-06-30, It remains valid subject to satisfactory surveillance audits. First certification 2013

This certificate information can be searched on CNCA official website http://www.cnca.gov.cn

2018-08-02

TÜV Rheinland CERT GMBH
Am Grauen Stein • 51105 Köln

www.tuv.com

TÜVRheinland®
Precisely Right.


认证证书

标准 ISO 9001:2015
证书登记号码 01 100 1325580

证书持有者：
江苏连酸生物工程有限公司
统一社会信用代码：91320700691208888
注册地址：中华人民共和国江苏省连云港市
连云港开发区大浦工业区临浦路 2 号
邮编：222006
经营地址：同上述地址

认证范围：
氨基葡萄糖（盐酸氨基葡萄糖和硫酸氨基葡萄糖氯化钾复合盐），硫酸氨基葡萄糖氯化钠复合盐和 N-乙酰氨基葡萄糖（仅限于境外销售），硫酸软骨素钠（仅限于境外销售），鱼胶原蛋白及壳聚糖的生产

证明完成了审核并满足了 ISO 9001:2015 标准的要求。

有效期：
证书有效期从 2018-08-01 至 2018-06-30。
此证书须经过符合要求的监督审核保持有效。
初次发证始于 2013 年

本证书信息可在国家认证认可监督管理委员会官方网站上查询
http://www.cnca.gov.cn

2018-08-02

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Certificate

Standard GB/T 22000-2006 idt ISO 22000:2005
CNCA/CTS 0020-2008A
(CCAA 0014-2014)
Certificate Regist. No. FOSFSMS1600005

Certificate Holder:
Jiangsu Aoxin Biotechnology Co., Ltd.
Unified Social Credit Code: 91320700691208888
Registration Address: No. 2, Linpu Road, Dapu Industrial Area, Lianyungang Development Zone, Lianyungang City, Jiangsu Province 222006, P. R. China
Operation Address: same as above

Scope: Manufacturing of Glucosamine Series Products (Glucosamine Hydrochloride and Glucosamine Sulfate Potassium Chloride), Glucosamine Sulfate Sodium Chloride (Glucosamine Workshop & Packaging Workshop) and N-Acetylglucosamine (Only for Overseas Sales) (N-Acetylglucosamine Workshop & Packaging Workshop), Chondroitin Sulfate Sodium (Only for Overseas Sales) (Chondroitin Workshop & Packaging Workshop), Fish Collagen (Chondroitin Workshop & Packaging Workshop) and Chitosan (Chondroitin Workshop & Packaging Workshop)

Proof has been furnished by means of an audit that the requirements of GB/T22000-2006 idt ISO22000:2005 & CNCA/CTS 0020-2008A (CCAA 0014-2014) are met.

Validity: The certificate is valid from 2017-05-08 until 2019-05-09 and remains valid subject to satisfactory surveillance audits.

This certificate information can be searched on CNCA official website http://www.cnca.gov.cn

Beijing, 2017-05-08

TÜV Rheinland (China) Ltd.
No. 01/03B-05, Floor 7 and No. 01/03B-06, Floor 11, AVIC Building, No.10B Central Road, East 3rd Ring Road, Chaoyang District, Beijing, 100022, P. R. China

CNAS 中国认可 管理体系 MANAGEMENT SYSTEM CNAS C144-M

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认证证书

标准 GB/T 22000-2006 idt ISO 22000:2005
CNCA/CTS 0020-2008A
(CCAA 0014-2014)
证书登记号码 FOSFSMS1600005

证书持有者：
江苏连酸生物工程有限公司
统一社会信用代码：91320700691208888
注册地址：中华人民共和国江苏省连云港市
连云港开发区大浦工业区临浦路 2 号
邮编：222006
经营地址：同上述地址

认证范围：
氨基葡萄糖（盐酸氨基葡萄糖和硫酸氨基葡萄糖氯化钾复合盐），硫酸氨基葡萄糖氯化钠复合盐和 N-乙酰氨基葡萄糖（仅限于境外销售）（N-乙酰氨基葡萄糖车间和包装车间），硫酸软骨素钠（仅限于境外销售）（软骨素车间和包装车间），鱼胶原蛋白（软骨素车间和包装车间）及壳聚糖（软骨素车间和包装车间）的生产

证明完成了审核并满足了 GB/T22000-2006 idt ISO22000:2005 & CNCA/CTS 0020-2008A (CCAA 0014-2014) 标准的要求。

有效期：
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并须经过符合要求的监督审核保持有效。

本证书信息可在国家认证认可监督管理委员会官方网站上查询
http://www.cnca.gov.cn

北京，2017-05-08

中国合格评定国家认证认可监督管理委员会
中华人民共和国北京市朝阳区北三环中路乙 10 号
天辰东大厦第四层 01、03B-06 号 100022

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氨基葡萄糖系列
GLUCOSAMINE SERIES



以下氨糖系列产品，可提供代工服务，全品类剂型，满足所有客户需求

OEM/ODM service can be provided for the above glucosamine series
All Dosage Forms Cater to Customer Requirements



Tabella 片剂



Powder 粉剂



Soft capsule 软胶囊

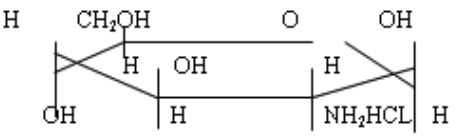


Hard capsule 硬胶囊

品类 category	
	D- 氨基葡萄糖盐酸盐　Glucosamine Hydrochloride
	D- 氨基葡萄糖硫酸钾盐　D-Glucosamine Sulfate Potassium Chloride
	D- 氨基葡萄糖硫酸钠盐　D-Glucosamine Sulfate Sodium Chloride
	N- 乙酰 -D- 氨基葡萄糖　N-Acetyl-D-Glucosamine
	……

D—氨基葡萄糖盐酸盐
GLUCOSAMINE HYDROCHLORIDE

化学文摘号 CAS 号码：66-84-2
分子式 Molecular Formula：C6H13NO5.HCL
分子量 Molecular Weight：215.63



用途
APPLICATION

氨基葡萄糖盐酸盐是由天然的甲壳质提取的，主要用于医疗药品。它对人体具有重要的生理功能，能促进人体粘多糖的合成，有利于关节软骨的代谢和修复，具有明显的消炎镇痛作用。它可供糖尿病患者做营养补充剂，对于治疗风湿性关节炎和胃溃疡有良好的疗效。可抑制细胞的生长，是合成抗生素和抗癌药物的主要原料。此外，它还可用于食品添加剂、饲料添加剂、化妆品等行业。

This product is a kind of natural chitin extraction. mainly applied in medical treatment drugs. It has important physiological functions to human body, It can promote the body's synthesis of mucopolysaccharide and is conducive to the articular cartilage's metabolism and repair, with significant anti-inflammatory analgesic effect. It can be the nutritional supplement for diabetic patients, and it has good effect on the treatment of peptic ulcer disease and rheumatoid arthritis. It is also the main raw material of antibiotics synthesis and anti-cancer drugs. Besides, it can be used in food, feeds, cosmetics, and so on.

项目 Items	标准 Standard
性状 Description	白色粉末 White Powder
气味 Odor	无气味 odorless
目数 Particle Size	30 ～ 100 mesh
含量 Assay(HPLC)	98.00 ～ 102.00%
比旋光度 [a]20DSpecification Rotation	＋70.0°～＋73.0°
透光率 Transm	≥90.0%
灼烧残渣 Residue on Ignition	≤0.1%
干燥失重 Loss on Drying	≤0.5%
pH 值 pH Value	3.0 ～ 5.0
氯离子 Chloride	16.0% ～ 17.0%
硫酸盐 Sulfate	≤0.24
铁 Iron	≤10ppm
重金属 Heavy Metals	≤10ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count	≤1000CFU/g
酵母、霉菌 Yeast&Mold	≤100CFU/g
大肠菌群 Coliforms Group	≤30MPN/100g
沙门氏菌 Salmonella	Negative
金黄色球菌 Staphyloccus	Negative

性状：白色结晶粉末，无气味，易溶于水，微溶于乙醇。

Properties: White crystalline powders, odorless, water soluble, slightly soluble in ethanol or other organic solvents

D－氨基葡萄糖硫酸钾盐
D-GLUCOSAMINE SULFATE POTASSIUM CHLORIDE

化学文摘号 CAS：1296149-08-0
分子式 Molecular Formula：（C6H14NO5）2SO4.2KCL
分子量 Molecular Weight：605.52

用途
APPLICATION

制药原料，对风湿性关节炎、心脏病、肺炎及骨折均有辅助治疗作用，也是抗生素等药物制剂的辅料；近年发现有吸收自由基、抗衰老、减肥、调节内分泌等多种有益的生理作用，更适用于药物和保健食品的片剂制造，易于工艺压制成形。

It is a raw material of medicine, having complementary treatment effects on rheumatic arthritis, cardiopathy, pneumonia, and fracture. It is also the adjuvant of antibiotic and other pharmaceutical preparations. In recent years, it has been found to have multiple physiologic effects, such as absorbing free radicals, anti aging, losing weight and adjusting endocrine. It is suitable for tablet making of medicines and health food, and it is a easy craft for suppression of shape.

项目 Items	标准 Standard
性状 Description	白色结晶性粉末 White Crystalline Powder
气味 Odor	无气味 odorless
目数 Particle Size	30 ～ 100 mesh
含量 Assay（HPLC）	98.00 ～ 102.00%
比旋光度 [a]20DSpecification Rotation	＋47.0°～＋53.0°
透光率 Transm	≥90.0%
灼烧残渣 Residue on Ignition	26.5% ～ 31.0%
干燥失重 Loss on Drying	≤0.5%
pH 值 pH Value	3.0 ～ 5.0
氯离子 Chloride	11.3% ～ 12.3%
硫酸盐 Sulfate	15.5% ～ 16.5%
钾 Potassium	11.7% ～ 13.0%
铁 Iron	≤10ppm
重金属 Heavy Metals	≤10ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count	≤1000CFU/g
酵母、霉菌 Yeast&Mold	≤100CFU/g
大肠菌群 Coliforms Group	≤30MPN/100g
沙门氏菌 Salmonella	Negative
金黄色球菌 Staphyloccus	Negative

性状：自色结晶粉末，无气味，易溶于水，微溶于乙醇。

Properties: White crystalline powders, odorless, water soluble, slightly soluble in ethanol or other organic solvents

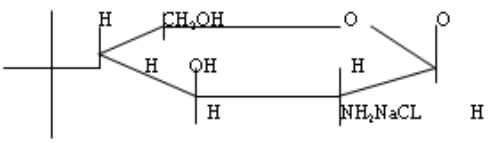
D－氨基葡萄糖硫酸钠盐

D-GLUCOSAMINE SULFATE SODIUM CHLORIDE

化学文摘号 CAS：1296149-13-7

分子式 Molecular Formula：（C6H14NO5）2SO4.2NaCL

分子量 Molecular Weight：566.52



用途

APPLICATION

有治疗口内炎、化脓性湿疹、关节炎、毒蛇咬伤等功能，是抗风湿性关节炎的原料药。近年发现有吸收自由基、抗衰老、减肥、调节内分泌等多种有益的生理作用，被广泛用于食品添加剂和保健食品的生产；用作化妆品中美容膏，洗发剂的添加剂，可以优化肌肤，起到抗氧化功效；用于植物生长调节，作为植物生长刺激素。

It can cure diseases of stomatitis, purulent eczema, arthritis, snakebite and so on. It is the raw material of anti-rheumatoid arthritis drug. In recent years it has been found to have multiple physiologic effects, such as absorbing free radicals, anti aging, losing weight and adjusting endocrine. It is widely used in food additives and health foods.It is also as one kind of additives in Cosmetics, and It can optimize our skin, has efficacy of anti-oxidation. It is used as biostimulant in regulating the growth of plants.

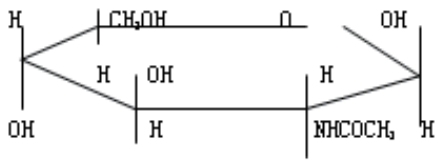
项目 Items	标准 Standard
性状 Description	白色结晶性粉末 White Crystalline Powder
气味 Odor	无气味 odorless
目数 Particle Size	30 ～ 100 mesh
含量 Assay（HPLC）	98.00 ～ 102.00%
比旋光度 [a]20DSpecification Rotation	＋50.0°～＋55.0°
透光率 Transm	≥90.0%
灼烧残渣 Residue on Ignition	22.5% ～ 26.0%
干燥失重 Loss on Drying	≤0.5%
pH 值 pH Value	3.0 ～ 5.0
氯离子 Chloride	11.7% ～ 12.8%
硫酸盐 Sulfate	16.3% ～ 17.3%
钾 Potassium	无沉淀生成 No precipitation is generated
钠 Sodium	7.0%--8.3%
铁 Iron	≤10ppm
重金属 Heavy Metals	≤10ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count 酵母、霉菌 Yeast&Mold 大肠菌群 Coliforms Group 沙门氏菌 Salmonella 金黄色球菌 Staphyloccus	≤1000CFU/g ≤100CFU/g ≤30MPN/100g Negative Negative

性状：白色结晶粉末，无气味，易溶于水，微溶于乙醇。

Properties: White crystalline powders, odorless, water soluble, slightly soluble in ethanol or other organic solvents

N－乙酰－D－氨基葡萄糖
N-ACETYL-D-GLUCOSAMINE

化学文摘号 CAS：7512-17-6
分子式 Molecular Formula：C8H15NO6
分子量 Molecular Weight：221.20



用途
APPLICATION

该产品是合成双岐因子的重要前提，在生物体内具有许多重要生理功能。它在临床上是治疗风湿性及类风湿性关节炎的药物；可以作为食品抗氧化剂及婴幼儿食品添加剂，糖尿病患者甜味剂。
主要用于临床增强人体免疫系统的功能，抑制癌细胞或纤维细胞的过度生长，对癌症和恶性肿癌起到抑制和治疗作用；对于各种炎症，能起到有效的治疗，对骨关节炎及关节疼痛也有治疗作用。
应用于化妆 品，有软化角质功效，增加人体皮肤中透明质酸的含量，长效保湿，抗衰老，抑制黑色素的生成，有效美白，抗氧化等。

It is an important prerequisite of the synthesis of bifidus factor, in the biological body it has many important physiological functions. In the clinical it is treatment of rheumatic and rheumatoid arthritis drug; It can be used as antioxidants in food and infant food additives, sweeteners of diabetic patients.
It is mainly used to enhance the clinical function of the body's immune system, cancer cells or inhibit the overgrowth of cancer cells or fibrocytes, in malignant neoplasms it has played the role of inhibition and treatment; for all kinds of inflammation, can be an effective treatment of bone arthritis and joint pain.
Applied in cosmetics, it has the effect of softening cutin, increasing the content of hyaluronic acid in human skin, long-term moisturizing, anti-aging, inhibiting the production of melanin, effective whitening, anti-oxidation and so on.

项目 Items	标准 Standard
性状 Description	白色粉末 White Powder
目数 Particle Size	≥90% 过 100 目 90% pass 100 mesh
含量 Assay(HPLC)	98.00 ～ 102.00%
比旋光度 [a]20DSpecification Rotation	+39.0°～ +43.0°
灼烧残渣 Residue on Ignition	≤0.1%
干燥失重 Loss on Drying	≤0.5%
pH 值 pH Value	6.0 ～ 8.0
氯离子 Chloride	≤0.2%
熔点 Melting Point	196°C ～ 205°C
铁 Iron	≤10ppm
重金属 Heavy Metals	≤10ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count	≤1000CFU/g
酵母、霉菌 Yeast&Mold	≤100CFU/g
大肠菌群 Coliforms Group	≤30MPN/100g
沙门氏菌 Salmonella	Negative
金黄色球菌 Staphyloccus	Negative

性状：白色结晶粉末，无气味，易溶于水，不溶于乙醇等有机溶剂。

Properties: White crystalline powders, odorless, water soluble, slightly soluble in ethanol or other organic solvents.



硫酸软骨素系列
CHONDROITIN SULFATE

分子式 Molecular Formula：C8H15NO6
分子量 Molecular Weight：221.20
化学文摘号 CAS：9082-07-9

硫酸软骨素是动物的软骨中提取的粘多糖类物质，主要来源于鸡、鸭、牛、猪、鲨鱼的软骨。
在防治心血管疾病、关节病等方面有重要的作用。被广泛应用于药品、化妆品、保健食品、功能性宠物食品等领域。
硫酸软骨素有助于增强滑膜产生透明质酸的能力，促进关节滑液的分泌，让关节能够更灵活地活动。与氨基葡萄糖配合使用，具有止痛，促进软骨再生的功效，可以从根本改善关节问题。

Chondroitin sulfate is a mucosaccharide substance extracted from the cartilage of animals, mainly from the cartilage of chicken, duck, bovine, porcine and shark.
It plays an important role in the prevention and treatment of cardiovascular diseases and joint diseases. It is widely used in medicine, cosmetics, health food, functional pet food and other fields.
Chondroitin sulfate helps to enhance the synovial membrane's ability to produce hyaluronic acid, promote the secretion of synovial fluid, and allow joints to move more flexibly. Combined with glucosamine, it has the effect of pain relief, promoting cartilage regeneration, and can fundamentally improve joint problems.

项目 Items	标准 Standard
性状 Description	白色至奶白类粉末 White to milky powder
目数 Particle Size	≥100% 过 80 目 100% pass 80 mesh
含量 Assay(HPLC)	≥90%
吸光度 Absorb	≤0.35
比旋光度 [a]20DSpecification Rotation	-30° ～ -20°(家禽畜类 Poultry and livestock)；-19° ～ -12°(鲨鱼 Shark)
透光率 Transm	≥90.0%
灼烧残渣 Residue on Ignition	20% ～ 30%
干燥失重 Loss on Drying	≤10%
pH 值 pH Value	5.5 ～ 7.5
氯化物 Chloride	≤0.5%
硫酸盐 Sulfate	≤0.24%
铁 Iron	≤10ppm
重金属 Heavy Metals	≤20ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count	≤1000CFU/g
酵母、霉菌 Yeast&Mold	≤100CFU/g
大肠菌群 Coliforms Group	≤30MPN/100g
沙门氏菌 Salmonella	Negative
金黄色球菌 Staphyloccus	Negative

性状：硫酸软骨钠为白色粉末，无臭，无味，吸水性强，易溶于水，不溶于乙醇、丙酮等有机溶剂。

Properties: Chondroitin Sulfate is white powder, odorless, tasteless, strong water absorption, soluble in water, insoluble in ethanol, acetone and other organic solvents.

壳聚糖系列
CHITOSAN



我司可生产供应多种壳聚糖及壳聚糖衍生物

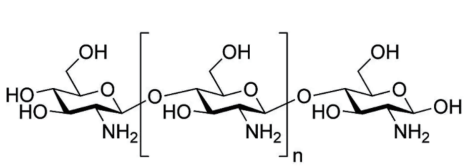
Aoxin can produce and supply types of Chitosan and Chitosan derivatives.

品类 category	高密度壳聚糖 Chitosan High Density	壳寡糖 Chitosan Oligosaccharide
	工业级壳聚糖 Industrial Grade Chitosan	羟丙基壳聚糖 Hydroxypropyl Chitosan
	农业级壳聚糖 Agricultural Chitosan	壳聚糖盐酸盐 Chitosan hydrochloride
	食品级壳聚糖 Food Grade Chitosan	羧甲基壳聚糖 Carboxymethyl Chitosan
	医药级壳聚糖 Medical Grade Chitosan	壳聚糖乳酸盐 Chitosan Lactate

壳聚糖
CHITOSAN

化学文摘号 CAS：9012-76-4

分子式 Molecular Formula：



产品简介
INTRODUCTION

壳聚糖是以甲壳质为原料，再经提炼而成，不溶于水，能溶于稀酸，能被人体吸收。壳聚糖是甲壳质的一级衍生物。其化学结构为带阳离子的高分子碱性多糖聚合物，并具有独特的理化性能和生物活化功能。

Chitosan is made from chitin and then refined. It is insoluble in water, soluble in dilute acid, can be absorbed by the human body. Chitosan is a primary derivative of chitin. Its chemical structure is cationic polymer with basic polysaccharide, and has unique physical and chemical properties and biological activation function.

高密度壳聚糖
CHITOSAN HIGH DENSITY

性状：类白粉末或淡黄色粉末或颗粒，无味无毒，具有良好的流动性，溶于酸，不溶于水、碱和一般的有机溶剂

Properties: White or light yellow powder or granular, tasteless, non-toxic, with good liquidity, soluble in acid, but insoluble in water, alkali, and ordinary organic solvents.

用途
APPLICATION

本品相对于普通壳聚糖具有更高的密度和更好的流动性。相同体积的产品其吸附油脂的能力是普通壳聚糖的三倍以上，在胃酸的辅助下能速溶并吸附大量的油脂，胆固醇和氯根离子。在肠道时凝絮而不被吸收从而被直接排出体外。本品相对于普通型壳聚糖，更为适合和方便灌装成胶囊，因而广泛应用于减肥，降血脂，降血压等医疗和保健品领域。

Compared with the ordinary chitosan, this product has higher density & better liquidity. Its oil adsorption ability is at least three times of ordinary chitosan basing on the same volume. With the assistance of gastric acid, it can instantly adsorb fat, cholesterol and chloride ions, then directly wasted out of the body after flocculation in the gut but not being absorbed. This product is more suitable and more convenient to be made into capsules, and therefore it is widely applied in medical areas of losing weight, reducing hematic fat & blood pressure and etc.

项目 Items	标准 Standard
外观 Appearance	白色至浅黄色，自由流动粉末 White to light yellow, free flowing powder
气味 Odor	无气味 odorless
堆积密度 Bulk Density	≥0.60g/ml
目数 Particle size(U.S.Mesh)	100% 通过 80 目 100% pass 80 mesh
溶液外观 Appearance of the Solution	透明无色至浅黄色 Transparent colorless to light yellow
脱乙酰度 Deacetylated Degree	≥90.0%
可溶性 Solubility	≥99.0%(在 1% 醋酸中) In 1% acetic acid
水分 Water Content	≤10.0%
灰份 Ash Content	≤1.5%
pH 值 pH Value	6.5 ～ 8.5
粘度 Viscosity	符合声称 Complies
铅 Lead	≤2.0ppm
砷 Arsenic	≤1.0ppm
重金属 Heavy Metals	≤10ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count	≤1000CFU/g
酵母、霉菌 Yeast&Mold	≤100CFU/g
大肠菌群 Coliforms Group	≤30MPN/100g
沙门氏菌 Salmonella	Negative
金黄色球菌 Staphyloccus	Negative

农业级壳聚糖
AGRICULTURAL GRADE CHITOSAN

性状：类白粉末或淡黄色粉末或颗粒，无味无毒，具有良好的流动性，溶于酸，不溶于水、碱和一般的有机溶剂

Properties: White or light yellow powder or granular, tasteless, non-toxic, with good liquidity, soluble in acid, but insoluble in water, alkali, and ordinary organic solvents.

用途
APPLICATION

可用于种子处理、农业植保、土壤改良、水果保鲜等。

Uses: it can be used for seed treatment, agricultural plant protection, soil improvement, fruit preservation, etc.

项目 Items	标准 Standard
外观 Appearance	白色至浅黄色，自由流动粉末 White to light yellow, free flowing powder
目数 Particle size(U.S.Mesh)	100% 通过 80 目 100% pass 80 mesh
脱乙酰度 Deacetylated Degree	≥90.0%
可溶性 Solubility	≥99.0%(在 1% 醋酸中) In 1% acetic acid
水分 Water Content	≤10.0%
灰份 Ash Content	≤1.5%
粘度 Viscosity	符合声称 Complies
铅 Lead	≤2.0ppm
砷 Arsenic	≤1.0ppm
重金属 Heavy Metals	≤10ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count	≤1500CFU/g
酵母、霉菌 Yeast&Mold	≤100CFU/g
大肠菌群 Coliforms Group	≤30MPN/100g
沙门氏菌 Salmonella	Negative
金黄色球菌 Staphyloccus	Negative

工业级壳聚糖
INDUSTRIAL GRADE CHITOSAN

性状：类白粉末或淡黄色粉末或颗粒，无味无毒，具有良好的流动性，溶于酸，不溶于水、碱和一般的有机溶剂

Properties: White or light yellow powder or granular, tasteless, non-toxic, with good liquidity, soluble in acid, but insoluble in water, alkali, and ordinary organic solvents.

用途
APPLICATION

壳聚糖工业上可用于喷丝纺织、织物整理、织物印染、保健内衣、造纸助剂、皮革处理等。在环保领域，壳聚糖可用于污水处理，蛋白回收，水净化，清除甲醛等。

Chitosan can be used in spinneret, fabric finishing, fabric printing and dyeing, health underwear, paper auxiliaries, leather processing. In the field of environmental protection, chitosan can be used for sewage treatment, protein recovery, water purification, removal of formaldehyde and so on.

项目 Items	标准 Standard
外观 Appearance	白色至浅黄色，自由流动粉末 White to light yellow, free flowing powder
目数 Particle size(U.S.Mesh)	40 ～ 100 mesh
脱乙酰度 Deacetylated Degree	≥70% / ≥80% / ≥90%
可溶性 Solubility	≥99.0%
水分 Water Content	≤10.0%
灰份 Ash Content	≤2.0%
粘度 Viscosity	10~1000mPa.s(cps)
铅 Lead	≤2.0ppm
砷 Arsenic	≤1.0ppm
重金属 Heavy Metals	≤10ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count 酵母、霉菌 Yeast&Mold 大肠菌群 Coliforms Group 沙门氏菌 Salmonella 金黄色球菌 Staphyloccus	≤1500CFU/g ≤100CFU/g ≤30MPN/100g Negative Negative

食品级壳聚糖
FOOD GRADE CHITOSAN

性状：类白粉末或淡黄色粉末或颗粒，无味无毒，具有良好的流动性，溶于酸，不溶于水、碱和一般的有机溶剂

Properties: White or light yellow powder or granular, tasteless, non-toxic, with good liquidity, soluble in acid, but insoluble in water, alkali, and ordinary organic solvents.

用途
APPLICATION

作为功能性甜味剂，可直接加入相应食品中使用。作为澄清剂，在果汁澄清时可直接使用。作为保鲜剂，广泛应用于果蔬及禽蛋类食品的贮藏保鲜。作为载体，用作于酶的固定。

As a kind of functional sweetener, it can be added directly in the food. As a kind of clarifying agent, it can be directly used in the juice for clarification. As a kind of preservative, it is widely used in fruits,vegetables and eggs food fresh-keeping. As a kind of carrier, it can be used in enzyme fixed.

项目 Items	标准 Standard
外观 Appearance	白色至浅黄色，自由流动粉末 White to light yellow, free flowing powder
目数 Particle size(U.S.Mesh)	40 ～ 100 mesh
脱乙酰度 Deacetylated Degree	≥85% / ≥90%
可溶性 Solubility	≥99.0%
水分 Water Content	≤10.0%
灰份 Ash Content	≤1.0%
粘度 Viscosity	符合声称 Complies
铅 Lead	≤2.0ppm
砷 Arsenic	≤1.0ppm
重金属 Heavy Metals	≤10ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count	≤1000CFU/g
酵母、霉菌 Yeast&Mold	≤100CFU/g
大肠菌群 Coliforms Group	≤30MPN/100g
沙门氏菌 Salmonella	Negative
金黄色球菌 Staphyloccus	Negative

医药级壳聚糖
INDUSTRIAL GRADE CHITOSAN

性状：类白粉末或淡黄色粉末或颗粒，无味无毒，具有良好的流动性，溶于酸，不溶于水、碱和一般的有机溶剂

Properties: White or light yellow powder or granular, tasteless, non-toxic, with good liquidity, soluble in acid, but insoluble in water, alkali, and ordinary organic solvents.

用途
APPLICATION

医药级壳聚糖具有以下的良好保健功能，可用于降低肝脏和血清中的胆固醇；可用于增加免疫力，增强抵御疾病的能力；可用于防治痛风（尿酸过多症），防治胃溃疡；可用于调节体内微量元素 Fe 的含量。

Medical grade chitosan has the good health care functions:It can be used to reduce the cholesterol in the liver and serum; it can be used to increase immunity, and enhance the ability to resist disease; it can be used to prevent and treat gout (too much uric acid syndrome) and gastric ulcer; and it can be used to adjust the content of trace element Fe in the body.

项目 Items	标准 Standard
外观 Appearance	白色至浅黄色，自由流动粉末 White to light yellow, free flowing powder
目数 Particle size（U.S.Mesh）	40 ～ 100 mesh
脱乙酰度 Deacetylated Degree	≥90% / ≥950%
可溶性 Solubility	≥99.0%
水分 Water Content	≤10.0%
灰份 Ash Content	≤1.0%
粘度 Viscosity	符合声称 Complies
铅 Lead	≤2.0ppm
汞 Mercury	≤1.0ppm
砷 Arsenic	≤0.3ppm
重金属 Heavy Metals	≤10ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count 酵母、霉菌 Yeast&Mold 大肠菌群 Coliforms Group 沙门氏菌 Salmonella 金黄色球菌 Staphyloccus	≤1000CFU/g ≤100CFU/g ≤30MPN/100g Negative Negative

壳寡糖
CHITOSAN OLIGOSACCHARIDE

性状：本品为白色或淡黄色粉末，无味无毒。溶于水，水溶液呈弱碱性，澄清透明，性质相对稳定

Properties: This product is white or light yellow powder, tasteless non-toxic.Soluble in water, aqueous solution is weakly alkaline, clear transparent, nature is relatively stable.

用途
APPLICATION

可用于医药中间体和原料药；用于为功能性食品；用于生物农药，肥料生长调节剂等；用于饲料，饵料的添加剂；用在化妆品中，可起到保湿，活化细胞等功能。

It can be used as pharmaceutical intermediates and API; It can be used for functional foods; It can be used for biological pesticides, fertilizer growth bio stimulants and etc.; It can be additives for feed and bait; It can also be used in cosmetics for moisturizing, activating cells and other functions.

项目 Items	标准 Standard
外观 Appearance	黄色自由流动粉末 Yellow free flowing powder
气味 Odour	无气味的 odorless
壳寡糖含量（2-10 个聚合度的寡聚氨基葡萄糖）(g/100g)	≥80.0%
分子量 M.W	＜3000
堆积密度 Bulk Density	≥0.25g/ml
目数 Particle size（U.S.Mesh）	≥150 mesh
脱乙酰度 Deacetylated Degree	≥90.0%
不溶性 Insoluble	＜0.2%（35°C）
水分 Water Content	≤10.0%
灰份 Ash Content	≤0.5%
pH 值 pH Value	5.0 ～ 7.0
砷 Arsenic	≤0.5ppm
重金属 Heavy Metals	≤10ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count	≤1000CFU/g
酵母、霉菌 Yeast&Mold	≤100CFU/g
大肠菌群 Coliforms Group	≤30MPN/100g
沙门氏菌 Salmonella	Negative
金黄色球菌 Staphyloccus	Negative

羟丙基壳聚糖
HYDROXYPROPYL CHITOSAN

性状：类白色片状或粉末状固体，无味无毒，易溶于水，水溶液呈中性，澄清透明，性质相对稳定

Properties: white flake or powder solid, tasteless non-toxic, soluble in water, aqueous solution is neutral, clear transparent, nature is relatively stable.

用途
APPLICATION

由于具有良好的水溶性，乳化性，抗菌性和表面活性等性能，本品已开始用作为药物缓蚀剂，食品果蔬保鲜剂，化妆品的保湿剂，污水处理等絮凝剂，和造纸助剂。

Because its good water solubility, emulsibility, antimicrobial properties, surface activity and other properties, this product can be used as corrosion inhibitor, food fruit and vegetable fresh-keeping agent, cosmetics moisturizing factor, sewage treatment flocculant, and paper making additives.

项目 Items	标准 Standard
外观 Appearance	白色至浅黄色，自由流动粉末 White to light yellow, free flowing powder
气味 Odour	无气味 odorless
溶液外观 Appearance of the Solution	透明无色 Transparent
取代度 Degree of Substitution	≥0.8
不溶物 Insoluble	≤1.0%
水分 Water Content	≤10.0%
灰份 Ash Content	≤1.5%
pH 值 pH Value	5.0 ～ 7.0
粘度 Viscosity	5.0 ～ 7.0
重金属 Heavy Metals	≤10ppm
砷 Arsenic	≤1.0ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count	≤1000CFU/g
酵母、霉菌 Yeast&Mold	≤100CFU/g
大肠菌群 Coliforms Group	≤30MPN/100g
沙门氏菌 Salmonella	Negative
金黄色球菌 Staphyloccus	Negative

壳聚糖盐酸盐
CHITOSAN HYDROCHLORIDE

性状：本品为白色或微白色半透明无定形粉末，无味无毒。遇水即溶，水溶液呈酸性，澄清透明，且性质较为稳定

Properties: This product is a white or slightly translucent white amorphous powder, tasteless non-toxic. It can be dissolved in water instantly and the solution is acidic, with clear transparent, and stable character.

用途
APPLICATION

用于制备医用敷料，止血效果极佳；可制成保健品胶囊，食用方便，并可快速溶解吸收，可充分发挥壳聚糖产品的保健功能；本品亲水性良好，可促进化妆品吸收；本品既保持了壳聚糖的原有品质，又具备了良好的成膜性和抗菌性，因此现已广泛用作为食品和果蔬的添加剂和保鲜剂；现在也可用于污水处理，蛋白质沉降回收，提高纸浆利用率，改进制品强度等等工程领域。

It can be used for the preparation of medical dressings , which has excellent hemostatic effect; It can be made into health care capsules, convenient edible, and can dissolve quickly absorbed, giving full play to chitosan's good functions on health care; This product has good hydrophilic,and can be used in cosmetics for better absorption; This product not only keeps the original quality of chitosan, and also has good film forming and antibacterial properties, thus has been widely used as food additives, preservatives for fruits and vegetables; Chitosan hydrochloride, now has been used for sewage treatment, protein precipitation recycling, improving the utilization rate of pulp, improving product strength and so on.

项目 Items	标准 Standard
外观 Appearance	白色至浅黄色，自由流动粉末 White to light yellow, free flowing powder
堆积密度 Bulk Density	≥0.25g/ml
溶液外观 Appearance of the Solution	透明无色至浅黄色 Transparent colorless to light yellow
脱乙酰度 Deacetylated Degree	70% ～ 95.0%
A: 红外线吸收 Infrared Absorption	符合标准 Complies
B: 氯化物检测 Tests for Chloride	符合标准 Complies
C: 氨反应 Ammonia Reaction	有大量凝胶状物体形成 a lot of gel-like stuff forming
D: 丙酮反应 Acetone Reaction	有大量凝胶状物体形成 a lot of gel-like stuff forming
水不溶物 Matter insoluble in water	≤0.5%
水分 Water Content	≤10.0%
灰份 Ash Content	≤1.0%
pH 值 pH Value	4.0 ～ 6.0
氯化物 Chloride (Cl)	10%~20%
粘度 Viscosity	≤200mPa.s
重金属 Heavy Metals	≤20ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count 酵母、霉菌 Yeast&Mold 大肠菌群 Coliforms Group 沙门氏菌 Salmonella 金黄色球菌 Staphyloccus	≤1000CFU/g ≤100CFU/g ≤30MPN/100g Negative Negative

羧甲基壳聚糖
CARBOXYMETHYL CHITOSAN

性状：自色或类白色粉来，无味无毒，滔于水，水溶液量中性，澄滴透明，性质相对稳定

Properties: white or kind of white powder, tasteless non-toxic, soluble in water, aqueous solution is neutral.clear transparent, nature is relatively stable.

用途
APPLICATION

现甲基壳聚能是壳聚糖衍生物中目前应用校为广泛的一种，中性，纯天然，因其物理性质和化学性质都进行了优化，因而具有良好的水溶性，优质的成膜性和较强的重金属繁合属性，目前已广泛用作药物缓释剂，植物生长剂和重金属整合剂，曾遍应用于化妆品及工业废水处理等行业。

Carboxymethyl chitosan is a kind of a chitosan derivative which has been widely applied at present, neutral and natural Because of its optimized physical properties and chemical properties, thus has good water solubility, good film forming,and strong heavy metal chelating properties, currently has been widely used as a medicine relievers, plant growth and heavy metal chelating agent, also widely used in industries like cosmetics and industrial waste water

项目 Items	标准 Standard
外观 Appearance	白色至浅黄色，自由流动粉末 White to light yellow, free flowing powder
气味 Odour	无气味 odorless
溶液外观 Appearance of the Solution	透明无色 Transparent
羧化度 Carboxylation degree	≥80.0%
不溶物 Insoluble	≤1.0%
水分 Water Content	≤10.0%
灰份 Ash Content	15.0% ～ 25.0%
pH 值 pH Value	8.0 ～ 10.0
蛋白质含量 Protein Content	Negative
粘度 Viscosity	≤80mPa.s
砷 Arsenic	≤0.5ppm
重金属 Heavy Metals	≤10ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count 酵母、霉菌 Yeast&Mold 大肠菌群 Coliforms Group 沙门氏菌 Salmonella 金黄色球菌 Staphyloccus	≤1000CFU/g ≤100CFU/g ≤30MPN/100g Negative Negative

壳聚糖乳酸盐
CHITOSAN LACTATE

性状：类白色或淡黄色粉来，无味无毒。水中溶解性良好，不溶于醇醚酮等有机溶剂。水溶液呈微酸性，澄清透明，性质相对稳定。

Properties: White or light yellow powder, tasteless non-toxic. Good solubility in water, insoluble in alcohol ether ketone and other organic solvents. Aqueous solution was slightly acidic, clear transparent, nature is relatively stable.

用途
APPLICATION

壳聚糖乳酸盐具有良好的抑菌，保湿，保健功能，广泛地应用于敷料，生物卫生材料，保健食品，功能性食品，食品添加剂，区药中间体等领域。

Chitosan lactate has good bacteriostasis, moisturizing, health care function, widely used in dressing, biological health materials, health care products, functional food, food additives, pharmaceutical intermediates, etc.

项目 Items	标准 Standard
外观 Appearance	黄色或淡黄色粉末 Yellow or light yellow powder
溶液外观 Appearance of the Solution	澄清 Transparent
取代度 Degree of substitution	≥80.0
灼烧残渣 Residue on Ignition	≤1.0%
干燥失重 Loss on Drying	≤10.0%
pH 值 pH Value	3.5 ～ 6.0
粘度 Viscosity	≤200mPa.s
铅 Lead	≤2.0ppm
砷 Arsenic	≤0.5ppm
重金属 Heavy Metals	≤10ppm
微生物检验 Microbiological Test	
细菌总数 Total Plate Count	≤1000CFU/g
酵母、霉菌 Yeast&Mold	≤100CFU/g
大肠菌群 Coliforms Group	≤30MPN/100g
沙门氏菌 Salmonella	Negative
金黄色球菌 Staphyloccus	Negative



胶原蛋白肽系列
COLLAGEN SERIES

我司可生产供应鱼胶原蛋白肽、牛胶原蛋白肽、复合骨胶原、非变性 II 型胶原蛋白、水解 II 型胶原蛋白等

Aoxin can produce and supply types of Fish Collagen，Bovine Collagen，GAG & Collagen II，Undenatured Collagen Type II，Hydrolyzed Collagen Type II

产品简介
PRODUCT INTRODUCTION

鱼胶原蛋白粉（鱼鳞胶原蛋白粉、鱼鳞胶原蛋白）是我公司采用优质鱼鳞为原料，经现代生物技术加工而成的新颖营养食品原料和化妆品营养添加剂。本品为纯鱼鳞胶原蛋白粉，无任何添加剂。鱼胶原蛋白可广泛用于保健食品、化妆品等领域。

Fish collagen powder (fish scale collagen powder, fish scale collagen), our company uses high-quality fish scale as raw materials, processed by modern biotechnology into novel nutritional food raw materials and cosmetics nutritional additives. This product is pure fish scale collagen powder without any additives.Fish collagen can be widely used in health food, cosmetics and other fields.

项目 Items	标准 Standard
外观 Appearance	白色或类白色粉末 White or similar to white color powder
性状 Properties	能完全溶于水，10% 水溶液呈透明 Completely soluble in water, 10% solution is transparent
蛋白质含量 Protein content	≥90.0%
水份 Moisture	≤7.0%
铅（Pb）	≤1.0mg/kg
总砷（As）	≤1.0mg/kg
总汞（Hg）	≤0.1mg/kg
镉（Cd）	≤0.1mg/kg
铬（Cr）	≤2.0mg/kg
微生物检验 Microbiological Test	
细菌总数 Total Plate Count	≤1000CFU/g
大肠菌群 Coliforms Group	≤30MPN/100g
沙门氏菌 Salmonella	Negative
金黄色球菌 Staphyloccus	Negative

研发创新

R & D

我们拥有一支专业化高科技人才研发团队，多年来不断致力于技术创新、工艺提升。同时，为促进产业升级、提升创新活力，我们还与武汉大学、中科院、中国海洋大学、北京工商大学、南京农业大学、江苏省海洋资源研究院等国内知名大学和研究所建立了紧密的合作关系。公司累计申请国内发明专利（30）项，国际发明专利（PCT）6 项，并已向美国、欧盟等 36 个国家申请专利注册。江苏澳新已于 2015 年获得国家级高新技术企业荣誉称号。发展形态。

Our professional R&D team has committed to tech innovation for many years. Aoxin always has close cooperation with universities and research institutes, such as Wuhan University, Chinese Academy of Sciences and so on. Aoxin has obtained more than 30 domestic patents and 6 PCT international patents. Moreover, patent registrations are on progress in more than 30 countries. Aoxin has been awarded national high-tech enterprise since 2015.

发明和专利	ZL 2009 1 0154187.X 丨一种鲨鱼硫酸软骨素的提取方法
	ZL 2009 1 0156803.5 丨高堆积密度低重金属含量壳聚糖及其制备方法
	ZL 2009 1 0144393.2 丨一种 2 一羟丙基三甲基氯化铵壳聚糖的制备方法
	ZL 2014 1 0794583.X 丨壳聚糖及壳聚糖衍生物的灭菌方法
	ZL 2016 1 0438888.6 丨一种几丁质脱乙酰基酶突变体
	ZL 2016 1 0064158.4 丨基于微生物发酵的 N- 乙酰 -D- 氨基葡萄糖的制备方法
	ZL 2016 1 0734425.4 丨0- 羟甲基壳聚糖的工业化制备方法
	ZL 2016 1 0734201.3 丨壳聚糖盐酸盐的制备方法
	ZL 2016 1 0384090.8 丨一种甲壳素制备 N- 乙酰 -D- 氨基葡萄糖的方法
	ZL 2017 1 1125982.7 丨一种催化活性提高的几丁质脱乙酰基酶突变体及其制备方法
	ZL 2020 1 1000186.2 丨一种工业化制备 O- 羟丙基壳聚糖的方法
	ZL 2021 1 0263048.1 丨一种酶法催化制备氨基葡萄糖的方法
	ZL 2021 1 0282228.4 丨生物酶催化制备氨基葡萄糖的方法
	……



全球布局
GLOBAL LAYOUT

澳兴集团已获得许多国家官方及客户的认可，产品远销美国、加拿大、澳洲、日本、欧洲等国家和地区，公司在国际贸易中布局深厚，分公司遍布全球各地，已经实现全球工厂及贸易一体化的发展形态。

AOXIN Group has been recognized by many countries and customers, the products are exported to the United States, Canada, Australia, Japan, Europe and other countries and regions, the company has a deep layout in international trade, branches all over the world, and has formed global integration of factories and trade.

社会责任
OUR DUTY

团结奋进的澳兴人始终坚持“质量第一，客户至上”的原则，以优质的产品开拓市场，以良好的信誉赢得客户，以守护大众健康为己任，同时倡导绿色发展，力争为社会贡献一份力量。

Aoxin Group is dedicated to providing high quality products to our customers and protecting public health as our own responsibility, while advocating green development and striving to contribute to the society.



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