



莱芜泰禾生化有限公司
LAIWU TAIHE BIOCHEMISTRY CO., LTD.
水发农业集团
SHUIFA AGRICULTURE GROUP CO., LTD.

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www.lwtaihe.cn

01-06

07-16

17-20



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水发农业

Shuifa Agriculture

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COMPANY PROFILE 公司简介

莱芜泰禾生化有限公司成立于 2003 年，位于济南市莱芜高新区，隶属于水发农业集团，以‘用优异的产品和服务持续为客户创造价值’为愿景，是一家集柠檬酸、柠檬酸盐及其附属品的研发、生产、销售于一体的国家高新技术企业，国务院国资委科改企业。公司注册资本 5000 万元，占地面积 208 亩，建筑面积 12 万平方米，在职员工 700 名，产品出口 80 多个国家和地区。

公司自 2003 年成立起，一直致力于柠檬酸系列产品的研究，是国内最早研发生产柠檬酸系列产品的企业之一，公司首创绿色环保的生物发酵法加氢钙提取工艺，生产的无水柠檬酸、一水柠檬酸、柠檬酸钠、柠檬酸钙各项工艺指标均达到国际先进水平，产品质量符合中国、欧洲、英国皇家药典、美国药典标准要求。公司目前已经具备年产 16 万吨柠檬酸及其盐类生产能力，已连续多年在国内名列前茅。

2003

公司成立于 2003 年
The company was established in 2003.

50000000

公司注册资本 5000 万元
The registered capital of the company is 50 million yuan.

Laiwu Taihe Biochemistry Co., Ltd. was established in 2003, located in Laiwu High-tech Zone, Jinan City, belongs to Shuifa Agriculture Group, with the vision of "creating continuous value for customers with excellent products and services", as one of the national high-tech enterprises and State-owned Assets Supervision and Administration Commission of the State Council science and reform enterprises, Laiwu Taihe specialize in research and development, production and sales for citric acid, citrates and its ancillary products. The company has a registered capital of CNY50 million, covers an area of 150,000 square meters, a construction area of 120,000 square meters, 700 employees, and exports its products to more than 80 countries and regions.

Since its establishment in 2003, the company has been committed to the research of citric acid series products, and is one of the earliest enterprises to develop and produce citric acid series products in China. The company pioneered the green and environmentally biological fermentation and hydrogenation calcium extraction process, the technology index of citric acid anhydrous, citric acid monohydrate, sodium citrate and calcium citrate have reached the international advanced level. The products quality meet the requirements of Chinese, European, British and American Pharmacopoeia standards. At present, the company has an annual production capacity of 160,000 tons of citric acid and citrates, which has been among the best in China for many years.

160000

年产 16 万吨柠檬酸及其盐类
Annual output of 160,000 tons of citric acid and its salts.

80

产品出口 80 多个国家和地区
Products are exported to more than 80 countries and regions.

公司未来发展目标是以玉米发酵为中心，拓展上下游产业链，开拓国际国内市场，打造中国最专业的柠檬酸生产基地。

The company's future development goal is to expand the upstream and downstream industry chain, expand the international and domestic markets, and build China's most professional citric acid production base

荣誉称号 Title Of Honour
海关出口高级认证 (AEO) 企业 Customs Authorized Economic Operation (Aeo)
中国生物发酵产业协会 Aaa 级诚信企业 Aaa Credit Enterprise Of China Biological Fermentation Industry Association
省级‘守合同、重信用’企业 Provincial Honor Contract And Trustworthy Enterprise
中国专利山东明星企业 China Patent Shandong Star Enterprise
山东省重点农业龙头企业 Shandong Key Agricultural Leading Enterprise
山东省重点培育和发展的国际知名品牌企业 Shandong Key Cultivation And Development Of International Well-Known Brand Enterprise
山东省制造业单项冠军产品 Shandong Manufacturing Single Champion Product
山东省瞪羚企业’ Shandong Gazelle Enterprise

经营理念 质量第一 用户至上

The Enterprise Honor 企业荣誉



公司荣获“海关出口高级认证 (AEO) 企业”、“中国生物发酵产业协会 AAA 级诚信企业”、“省级‘守合同、重信用’企业”、“中国专利山东明星企业”、“山东省重点农业龙头企业”、“山东省重点培育和发展的国际知名品牌企业”、“山东省制造业单项冠军产品”、“山东省瞪羚企业”，等荣誉称号。

Laiwu Taihe was awarded the "Customs Authorized Economic Operation (AEO)", "AAA credit Enterprise of China Biological Fermentation Industry Association", "Provincial honor contract and trustworthy Enterprise", "China Patent Shandong Star Enterprise", "Shandong Key Agricultural Leading Enterprise", "Shandong Key cultivation and development of international well-known brand enterprise", "Shandong Manufacturing single champion product" "Shandong Gazelle Enterprise", and other honorary titles.



12 项国际认证

- ISO9001
- ISO14001
- ISO22000
- FSSC22000
- SMETA
- HACCP
- GMP
- HALAL
- KOSHER
- NON-GMO IP
- BRC
- FAMI-QS
- CNAS



Market Distribution 市场分部

95%

泰禾 95% 的主营产品出口率

30%+

在欧盟的市场占有率达到 30% 以上

泰禾 95% 的主营产品出口到欧洲，日本，北美，澳洲等经济发达地区，在欧盟的市场占有率达到 30% 以上，已经与国际知名化工品分销商与终端品牌建立长期战略合作伙伴关系。泰禾人正在为打造世界级品牌不懈努力。

95% of Taihe's main products are exported to Europe, Japan, North America, Australia and other economically developed regions, with a market share of more than 30% in the European Union. Taihe has established long-term strategic partnership with internationally renowned chemical distributors and terminal brands. Taihe people are making unremitting efforts to build a world-class brand.

北美
North America

中美洲
Central America

南美洲
South America

欧盟
European Union

欧洲
Europe

澳大利亚
Australia

南美
Africa

Main Product Display 主产品展示



一水柠檬酸

CITIRC ACID
MONOHYDRATE

净重: 25kg



PRODUCT INTRODUCTION 产品简介

- 执行标准: BP/USP/FCC/E330/GB1886.235-2016
- 包装: 25KG, 500KG, 1000KG
- 主要用途: 主要用于食品、饮料、医药行业, 作为酸味剂、调味剂及防腐剂、保鲜剂、医药辅料; 在化工行业、化妆品行业及洗涤行业中用作抗氧化剂、增塑剂、洗涤剂。
- Executive Standards: BP/USP/FCC/E330/GB1886.235-2016
- PACKAGE: 25KG, 500KG, 1000KG
- APPLICATIONS: mainly used in food, beverage, medicine as acidulant, flavor, preservative. Widely used in chemicals, cosmetics, personal care and detergent industries.

无水柠檬酸

CITIRC ACID ANHYDROUS

净重: 25kg



PRODUCT INTRODUCTION 产品简介

- 执行标准: BP/USP/FCC/E330/GB1886.235-2016
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- 主要用途: 主要用于食品、饮料、医药行业, 作为酸味剂、调味剂及防腐剂、保鲜剂、医药辅料; 在化工行业、化妆品行业及洗涤行业中用作抗氧化剂、增塑剂、洗涤剂等。
- Executive Standards: BP/USP/FCC/E330/GB1886.235-2016
- PACKAGE: 25KG, 500KG, 1000KG
- APPLICATIONS: mainly used in food, beverage, medicine as acidulant, flavor, preservative. Widely used in chemicals, cosmetics, personal care and detergents industries.

柠檬酸钠

TRISODIUM CITRATE
DIHYDRATE

净重: 25kg



PRODUCT INTRODUCTION 产品简介

- 执行标准: BP/USP/FCC/E331/GB1886.25-2016
- 包装: 25KG, 500KG, 1000KG
- 主要用途: 在食品、饮料工业中用作风味剂、稳定剂、缓冲剂、螯合剂、酪乳的营养增补剂, 乳化剂、调味剂; 在医药工业中用作抗凝血剂、化痰药和利尿药; 在洗涤剂工业中, 可替代三聚磷酸钠作为无毒洗涤剂的助剂; 还用于酿造、注射液、摄影药品和电镀等。
- Executive Standards: BP/USP/FCC/E331/GB1886.25-2016
- PACKAGE: 25KG, 500KG, 1000KG
- APPLICATIONS: Used in food and beverage industry as flavor agent, stabilizer, buffer, stinger mixture, buttermilk nutrition supplement, emulsifier, flavoring agent; It is used as anticoagulant, expectorant and diuretic in pharmaceutical industry. In the detergent industry, it can replace sodium tripolyphosphate as the auxiliary agent of non-toxic detergent. It is also used for brewing, injection, photographic medicine and electroplating.

柠檬酸钙 CALCIUM CITRATE

净重: 25kg



无水柠檬酸钠 TRISODIUM CITRATE ANHYDROUS

净重: 25kg



PRODUCT INTRODUCTION 产品简介

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- 包装: 25KG, 500KG, 1000KG
- 主要用途: 主要用于食品、饮料、医药行业, 作为酸味剂、调味剂及防腐剂、保鲜剂、医药辅料; 在化工行业、化妆品行业及洗涤行业中用作抗氧化剂、增塑剂、洗涤剂。
- Executive Standards: BP/USP/FCC/E330/GB1886.235-2016
- PACKAGE: 25KG, 500KG, 1000KG
- APPLICATIONS: mainly used in food, beverage, medicine as acidulant, flavor, preservative. Widely used in chemicals, cosmetics, personal care and detergent industries.

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- 主要用途: 在食品、饮料工业中用做风味剂、稳定剂、缓冲剂、螯合剂、酪乳的营养增补剂, 乳化剂、调味剂; 在医药工业中用做抗血凝剂、化痰药和利尿药; 在洗涤剂工业中, 可替代三聚磷酸钠作为无毒洗涤剂的助剂; 还用于酿造、注射液、摄影药品和电镀等。
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- PACKAGE: 25KG, 500KG, 1000KG
- APPLICATIONS: Used in food and beverage industry as flavor agent, stabilizer, buffer, stinger mixture, buttermilk nutrition supplement, emulsifier, flavoring agent; It is used as anticoagulant, expectorant and diuretic in pharmaceutical industry. In the detergent industry, it can replace sodium tripolyphosphate as the auxiliary agent of non-toxic detergent. It is also used for brewing, injection, photographic medicine and electroplating.

By-Product Display 副产品展示

高蛋白饲料 CALCIUM CITRATE^M

- 产品标准: Q/1200LTS001-2011
- 包装: 25KG
- 应用: 从玉米原料中低温制取的高蛋白产品, 同时含有丰富的氨基酸、维生素及促进动物生长代谢的各种微量元素。用于配合饲料作原料或用作动物饲料。

- Executive Standards: Q/1200LTS001-2011
- PACKAGING: 25KG
- CHARACTERS & APPLICATIONS: High protein products made from corn raw materials at low temperature contain abundant amino acids, vitamins and various trace elements that promote animal growth and metabolism. It can be used as a raw material for compound feed or as an animal feed.

石膏粉 GYPSUM POWDER^M

- 用于建材和模具等
- 包装: 1000KG, 40KG

- USED IN CONSTRUCTION, BUILDING MATERIALS AND MOLDS
- PACKAGING: 1000KG, 40KG

Fermented Feed

发酵饲料

		产品功效	应用场景
畜禽类产品	适用于猪、鸡、鸭、兔、牛、羊、貂等畜禽养殖动物。	畜发	调节动物肠道菌群平衡，增强动物抵抗能力，提高饲料转化率。 生长迟缓，饲料转化率低，免疫力低，抗病能力差，雏鸡体质弱，死淘率高
		酵肽	调节肠道菌群平衡，提高饲料营养物质的吸收，提高产蛋率，强化蛋壳厚度，提高母兽产仔率和泌乳量 调节肠道、促进摄食 增强免疫力、提高成活率 拉伸条形、强化骨骼、促进钙质吸收、强化蛋壳 提升饲料利用率
		丰产	提高畜禽免疫力，减少霉菌毒素中毒，提高母畜繁殖力和幼畜成活率，降低或解除抗生素带来的副作用 调节肠道、促进摄食 增强免疫力、提高成活率 拉伸条形、强化骨骼、促进钙质吸收、强化蛋壳 提升饲料利用率
		伸长	提高饲料利用转化率，提高禽类产蛋率，减少霉菌毒素中毒等不良症状，提高免疫力。 调节肠道、促进摄食 增强免疫力、提高成活率 拉伸条形、强化骨骼、促进钙质吸收、强化蛋壳 提升饲料利用率

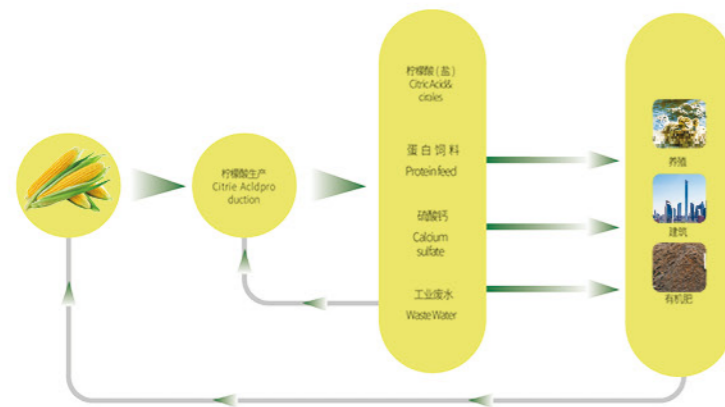
		产品功效	应用场景
水产类产品	适用于虾、蟹、鱼、海参、海蜇、贝类、甲鱼等海淡水养殖动物的育苗及养成	肽和 EM	稳定藻相，净化水质，改良底质，育苗室、工厂化养殖车间、高位池定期使用可延长换水时间 蓝藻、浓绿水、红黑水、老水等有特效；池塘水体温度刚开始回升定期使用水质稳定；池塘杀完草后使用，迅速分解烂草避免池底发黑变臭；定期使用可减少换水次数和换水量。
		酵肽	调节肠道菌群平衡，提高饲料转化率；改善品质、增强活力、促进脱壳、亮壳；可直接作为生物饵料；修复底质、改善水质。 调节肠道、促进摄食 亮壳硬壳、促进生长 提高活力、提升品质
		丰产乳膏	调节肠道菌群、提高饲料消化吸收率；促生长、增强活力、促进脱壳、拉伸骨骼；可直接作为生物饵料；富含益生菌群，改善水质 调节肠道 促进摄食 亮壳硬壳 促进生长 提高活力 提升品质 长期投喂 增加产量
		伸长	提高饲料利用率，调节肠道菌群平衡，促生长、增强活力、促进脱壳、拉伸骨骼；可直接作为生物饵料；富含益生菌群，改善水质 调节肠道、促进摄食 亮壳硬壳、促进生长 提高活力、提升产量 修复底质、稳定水质
		解毒净水 1 号	快速络合或降解水体中的氨态氮、亚硝酸盐、硫化氢、有机磷、重金属、藻毒素、残留消毒剂等有害物质，加速养殖动物体内毒素的排出 强效解毒 修复环境 养殖好帮手
		高钙乳	补充虾蟹等甲壳类动物脱壳期间对钙、微量元素和矿物质的需求 养水、护藻、调节水体硬度 补钙、补微量元素、促进脱壳、加快硬壳
		发酵培藻膏	藻类生长必需的氮元素、磷元素、钾元素铁、硅元素等，加速硅藻、绿藻等有益单胞藻类的繁殖 晴雨两用、生态肥水 快速肥水、改良水质

CYCLIC ECONOMY

循环经济

泰禾生化致力于资源节约和发展低碳经济，以科技创新促进环境保护与循环经济发展，走可持续发展道路，在行业内率先实施 LCA 和 EPD 认证。公司投入大量资金引进世界先进的 IC 厌氧处理技术，提高治污能力，并利用污水处理过程中产生的沼气发电，节约能源，通过中水回用，减少用水，最大限度的做到能源与水资源的综合循环利用，实现了废物资源化和无害化，达到了低投入、低排放、高利用、高产，努力建设资源节约型、环境友好型企业。

Laiwu Taihe Biochemistry Co.,Ltd is committed to resource conservation and the development of low-carbon economy, promoting environmental protection and circular economy development with scientific and technological innovation, taking the road of sustainable development, and taking the lead in implementing LCA and EPD certification in the industry. The company has invested a lot of money to introduce the world's advanced IC anaerobic treatment technology, improve the pollution control capacity, and use the biogas generated in the sewage treatment process to generate electricity, save energy, through the reuse of water, reduce water use, maximize the comprehensive recycling of energy and water resources, realize the resource and harmless waste, and achieve low input, low emission, high utilization, high yield, and low energy consumption. Strive to build resource-saving and environment-friendly enterprises.



率先实施 LCA 和 EPD 认证

Take the lead in implementing LCA and EPD certification

先进的 IC 厌氧处理技术

Advanced IC anaerobic treatment technology



Research And Development 企业研发

1200
研发场地总面积 1200 平方米

CNAS
通过国家认可委员会证

20
科研项目 20 余项

30
新型专利授权 30 余项

6
新申请发明专利 6 项

5
制定企业标准 5 项

1
参与制定国家标准 1 项

合作高校



临沂大学
LINYI UNIVERSITY

齐鲁工业大学
QILU UNIVERSITY OF TECHNOLOGY

四川大学
SICHUAN UNIVERSITY

江南大学
JIANGNAN UNIVERSITY

公司研发实力雄厚，研发场地总面积 1200 平方米，实验室已通过中国合格评定国家认可委员会（CNAS）认证，依托山东省企业技术中心研发力量，与齐鲁工业大学，临沂大学，四川大学，江南大学等高校合作，开展课题研究开发工作，改善添加剂的各项性能及质量，研究成果覆盖添加剂生产的各个环节，近三年共开展科研项目 20 余项，其中，“柠檬酸发酵菌渣生物饲料及制备工艺”、“柠檬酸废弃物资源化利用研究”被列入山东省技术创新项目，累计取得实用新型专利授权 30 项，新申请发明专利 6 项，制定企业标准 5 项，参与制定国家标准 1 项。

The company has strong research and development strength, with a total area of 1200 square meters, the laboratory has passed the certification of China National Accreditation for Conformity Assessment (CNAS), relying on the R&D strength of Shandong Enterprise Technology Center, Laiwu Taihe cooperated with Qilu University of Technology, Linyi University, Sichuan University, Jiangnan University and other universities to carry out research and development work, improving the performance and quality of additives, research results cover all aspects of additive production, more than 20 scientific research projects were developed in the past three years, among which, "citric acid fermentation bacterial residue biological feed and preparation process", "citric acid waste resource utilization research" was listed in Shandong Province technological innovation projects. A total of 30 utility model patents have been authorized, 6 new invention patents were applied, 5 enterprise standards were formulated, and one national standard was developed.



中国合格评定国家认可委员会
(CNAS) 认证

About ShuiFa Agricultural Group Co., Ltd. 水发农业集团简介

水发农业集团有限公司是水发集团的一级投资平台公司，主要从事农业投资建设，市场运营管理，技术研发推广，农资农机销售等服务。目前拥有固定资产 269 亿元、员工 2500 名，位列 2023 中国农业企业 500 强第 26 位、农业社会化服务企业 20 强第 1 位。先后获评“2020 中国乡村振兴社会责任企业”“2021 中国品牌影响力 100 强”“2022 年度农业行业领军企业”“2022 年度农业十大创新企业”“第十七届人民企业社会责任奖 - 乡村振兴奖”等荣誉称号。

水发农业集团以“着眼乡村振兴、强化惠民担当”为宗旨，按照“稳棉、扩粮、强果蔬”产业布局，大力实施平台化建设、强链补链、科技强企、高端推动、资本运作五大战略，积极搭建种植服务、养殖服务、加工服务、销售服务、信息化监管服务五大平台，不断探索现代农业发展新技术、新理念、新模式。成立了水发农业朱玉贤院士工作站和棉花创新研究院，拥有高新技术企业 9 家、专精特新等科技企业 22 家；省级农业产业化头部企业 2 家、省单项冠军产品一项；国家级科研平台 3 个、省级研发平台 15 个、市级研发平台 12 个；拥有国务院国资委“科创示范企业”1 家、国家现代农业全产业链标准化示范基地 1 处、国家国际贸易高质量发展基地 1 处，植物新品种 4 项，各项知识产权 349 项。形成了“厂地一体化、土棉资源双控”的棉花全产业链模式，“1+N”的现代设施农业模式，培育发展了一批行业领先的龙头企业。

下一步，水发农业集团将继续在省国资委和水发集团党委的领导下，深入贯彻落实“聚焦、整合、优化、管控、提升”10 字方针，围绕做精做细现代农业，全力发挥国有资本引领和带动作用，推进实施平台化建设、强链补链、科技强企、高端推动、资本运作五大战略，全力打造国际国内一流的现代农业集团。

ShuiFa Agricultural Group Co., Ltd. is the first-class investment platform company of ShuiFa Group, which is mainly engaged in agricultural investment and construction, market operation and management, technology research and development and promotion, agricultural capital and agricultural machinery sales and other services. At present, it has fixed assets of RMB 26.9 billion and 2,500 employees, and is ranked 26th among the Top 500 Agricultural Enterprises in China in 2023 and 1st among the Top 20 Agricultural Socialized Service Enterprises.

ShuiFa Agricultural Group has 9 high-tech enterprises, 22 specialized, special and new technology-based enterprises, and 349 intellectual property rights. Owned and co-operated 22 ginning mills, driving the cotton planting area of 1.3 billion square meters. Sugar production from sugar beet ranks second in the country, the slaughtering and processing capacity of grassland sheep ranks first in Inner Mongolia, and citric acid products account for more than 70% of the high-end market share in the European Union.

In the next step, ShuiFa Agricultural Group will continue to build an international and domestic first-class modern agricultural group under the leadership of the provincial state-owned Assets Supervision and Administration Commission and the Party Committee of ShuiFa Group.

棉业

Cotton Industry

在中国控制土地面积超过 200 万亩，棉花种植、采摘等环节均已实现机械化。2023 年加工销售皮棉总量过百万吨，占全国棉花总产量的 1/6

Shuifa controls more than 1300 km² of land in China, cotton planting, picking and other links have been mechanized. In 2023, the total amount of lint processed and sold exceeded one million tons, accounting for 1/6 of the total cotton production in China.



糖业

Sugar Industry

2022 年 /2023 年榨季加工甜菜约 130 万吨，产糖量 15.8 万吨，集甜菜订单种植、科技研发、制糖加工、产品精加工、副产品深加工、仓储物流为一体。甜菜制糖产量位居全国第二位。

In 2022-2023, about 1.3 million tons of sugar beets will be processed and 158,000 tons of sugar will be produced, integrating sugar beet order planting, scientific and technological research and development, sugar processing, product finishing, by-product deep processing, storage and logistics. Beet sugar production ranks second in China.

牧草业

Forage industry

水发农业甘肃金塔公司在金塔马莲塘基地种植万亩燕麦草，每亩平均可收获燕麦草 900 公斤，燕麦草，又称铃铛麦，耐贫瘠，抗旱抗寒，饲用价值很高，秸秆中含粗蛋白 5.2%，粗脂肪 2.2%，是牛、马、羊冬季的优质饲草，无论作青饲、青贮或调制干草都十分适宜。

Gansu Jinta Company planted 10,000 mu of oat grass in Maliantang base of Jinta, and an average of 900 kg of oat grass can be harvested per mu. Oat grass, also known as bell wheat, is resistant to barren, drought and cold, and has high feeding value. The straw contains 5.2% crude protein and 2.2% crude fat. It is a high-quality forage for cattle, horses and sheep in winter, and it is very suitable for green feeding, silage or making hay.



林果业

Forestry and fruit industry

在双河市种植葡萄 8 万亩，拥有保鲜库库容 4.1 万吨，建有国际标准化预冷保鲜包装生产车间 19 座，被评为“国家农产品质量安全县”“农业国际贸易高质量发展基地”。“北疆”商标被评为“中国驰名商标”，“北疆”品牌纳入中国农垦品牌目录“产品品牌”。

In Shuanghe City, 80,000 mu of grapes are planted, with a storage capacity of 41,000 tons, and 19 international standardized pre-cooling fresh-keeping packaging production workshops, which are rated as "National Agricultural product Quality and safety County" and "Agricultural International Trade high-quality Development base". The "Beijiang" trademark was rated as "China Famous Trademark", and the "Beijiang" brand was included in the "Product brand" of China's agricultural reclamation brand catalog.

蔬菜产业

Vegetable industry

新疆喀什（山东水发）现代蔬菜产业园是水发集团产业援疆的标志性项目，占地面积 4711 亩，拥有 7 万平方米荷兰智能温室、799 座高标准日光温室、6480 平方米潮汐式育苗中心、15 座高标准育苗双膜大拱棚、智慧农业实验基地以及冷链仓储物流中心、农副产品加工中心、商贸交易中心等配套设施。先后获得“新疆自治区农业产业化龙头企业”“脱贫攻坚奖扶贫先进企业”等荣誉称号

Xinjiang Kashi (Shuifa, Shandong) modern Vegetable Industrial Park is a landmark project of Shuifa Group's industrial aid to Xinjiang, covering an area of 4711 mu. It has 70,000 square meters of Dutch intelligent greenhouses, 799 high-standard solar greenhouses, 6480 square meters of tidal seedling center, 15 high-standard double-film seedling large arcades, smart agricultural experiment base, cold chain storage and logistics center, agricultural and sideline product processing center, trade and trading center and other supporting facilities. It has won honorary titles such as "Leading Enterprises in Agricultural Industry Poverty Alleviation in Xinjiang Autonomous Region" and "Advanced Enterprises in Poverty Alleviation Award".



制造加工业

Manufacturing and Processing industry

皮棉加工以流转控制土地为基础，以全程社会化服务为抓手，与合作种植户结成利益共同体，统一提供棉种、农药、化肥、灌溉、收割、科技、销售等社会化服务；柠檬酸加工柠檬酸年产能 16 万吨，产品出口国家和地区达 80 多个；大蒜加工产品出口欧洲、中东、南美、东南亚等 130 多个国家，依托互联网打造年交易额过亿的大蒜产品交易平台，2022 年大蒜出口量位居全国第二位；屠宰加工草原羊 2022 年全年屠宰量过百万只，位居全国第一。

Lint processing is based on land transfer and control, with whole-process social services as the starting point, forming a community of interests with cooperative growers, and providing social services such as cotton seed, pesticide, fertilizer, irrigation, harvesting, science and technology, and sales. Citric acid processing citric acid annual production capacity of 160,000 tons, products exported to more than 80 countries and regions; Garlic processing products are exported to more than 130 countries in Europe, the Middle East, South America, Southeast Asia, etc. Relying on the Internet to build a garlic products trading platform with an annual transaction volume of more than 100 million, and the garlic export volume ranks second in the country in 2022. Slaughter and processing of grassland sheep in 2022, the annual slaughter of more than one million, ranking first in the country.