TECHNICAL DATA SHEET

Sodium Hyaluronate

Hyaluronic Acid Sodium Salt | Food Grade

This Technical Data Sheet is issued by KEEP INGREDIENTS CO. LTD for the evaluation of the product described herein. The supplier and the customer undertake to maintain the CONFIDENTIAL information contained or enclosed in this document.

1. TECHNICAL DATA SHEET

Product Description

Sodium Hyaluronate is the sodium salt form of hyaluronic acid, produced by bacterial fermentation. It is one of the components of human skin and is widely distributed in the extracellular matrix of connective, epithelial and nerve tissues. It is a natural moisturizing agent with excellent water-retention capacity, and is widely used as an ingredient in food-grade dietary supplements, functional foods and cosmetics.

Product Information

Item	Information
Product name	Sodium Hyaluronate (Hyaluronic Acid Sodium Salt)
Synonyms	Poly(β-glucuronic acid-[1→3]-β-N-acetylglucosamine-[1→4])
Product source	Bacterial fermentation
CAS No.	9067-32-7
EINECS No.	232-678-0
Molecular formula	$(C_{14}H_{21}NaNO_{11})_n$
Product form	White or almost white powder or granule; no visible exogenous impurity
Glucuronic acid	≥ 44.5%
Sodium hyaluronate	≥ 87.0%
Shelf life	3 years (unopened packaging)
Packing	According to customer requirements
Storage	Airtight, protected from light; cold storage 2-10 °C
Country of origin	China



2. PRODUCT SPECIFICATION

2.1 Characters

Item	Standard
Description	White or almost white powder or granule
Impurity	No visible exogenous impurity

2.2 Physical & Chemical Specifications

Item	Standard
Glucuronic acid	≥ 44.5%
Sodium hyaluronate	≥ 87.0%
Intrinsic viscosity	Measured value
Average molecular weight	Measured value
pH	6.0-8.0
Transmittance	T600nm ≥ 99.0%
Moisture	≤ 10.0%
Ash	≤ 13.0%
Protein	≤ 0.1%
Lead (Pb)	≤ 0.5 mg/kg
Total arsenic (As)	≤ 0.3 mg/kg

2.3 Microbiological Specifications

Item	Standard
Bacteria count	≤ 100 CFU/g
Coliform bacteria	≤ 0.92 MPN/g
Molds & yeasts	≤ 50 CFU/g
Staphylococcus aureus	Negative/25 g
Salmonella	Negative/25 g



3. PROCESS CHART

The product is manufactured by bacterial fermentation, followed by alcohol precipitation, dissolving, membrane filtration, second alcohol precipitation, centrifugation, vacuum drying and final testing.

Inoculum Preparation (test tube slant & shake flask, 12 h)

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Seed Cultivation (seeding tank, 10 h, 37 °C)

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Fermentation (mechanical agitating fermentation tank, 37 °C)

▼

Fermentation Fluid

▼

First Alcohol Precipitation

▼

Crude Hyaluronic Acid

▼

Dissolving in Demineralized Water (60 °C) & pH Adjustment

▼

Filtration (coarse & fine) & Membrane Filtration (0.22 μm)

▼

Second Alcohol Precipitation & Dehydration

▼

Centrifugation (1 h)

▼

Vacuum Drying (rotary vacuum dryer, 60 °C)

▼

Testing

▼

Packing & Warehousing



4. CERTIFICATE OF ANALYSIS

Item	Data
Product name	Sodium Hyaluronate
Batch No.	KYSH2026010301
Manufacturing date	2026.01.03
Model / type	100 g/bag
Test basis	Food-grade specification

4.1 Analytical Results

Item	Standard	Result
Ash	≤ 13.0 g/100 g	12.1 g/100 g
Moisture	≤ 10.0 g/100 g	7.80 g/100 g
Lead (Pb)	≤ 0.5 mg/kg	Not detected (LOQ 0.05 mg/kg)
Total arsenic (As)	≤ 0.3 mg/kg	Not detected (LOQ 0.03 mg/kg)
Total bacteria count	n=5, c=2, m=10,000, M=100,000 CFU/g	Conforms (<10; 50; <10; 20; 40)
Coliform bacteria	n=5, c=2, m=10, M=100 CFU/g	Conforms (<10 all samples)
Molds & yeasts	≤ 50 CFU/g	< 10 CFU/g
Staphylococcus aureus	n=5, c=1, m=100, M=1,000 CFU/g	Conforms (<10 all samples)
Salmonella	Negative/25 g	Not detected

Note: All tested items conform to the specification.



5. NUTRITIONAL INFORMATION

Nutritional information per 100 g of Sodium Hyaluronate.

Test item	Unit	Test result	NRV%
Energy	kJ/100 g	0	0%
Protein	g/100 g	0	0%
Fat	g/100 g	0	0%
Carbohydrate	g/100 g	0	0%
Sodium	mg/100 g	5707	285%



6. APPLICATIONS

Sodium Hyaluronate has an excellent water-retention capacity. It can absorb a large amount of water to form an elastic viscous matrix and acts as a natural water-retaining agent for the skin, providing skin nutrition and moisturizing support. Depending on the dosage and molecular weight, the characteristics of the finished product vary.

Field	Typical use
Dietary supplements & functional foods	Food-grade formulations (capsules, tablets, sachets, beverages)
Cosmetics	Creams, lotions, sprays, essences, masks, cleansers and makeup products as a moisturizing agent

Note: end-users shall confirm final-formula compliance, appropriate usage dosage and labelling requirements under the regulations of the country of use.

7. PRODUCT STATEMENTS

7.1 Non-GMO Statement

NON-GMO STATEMENT

We hereby certify that this product is a Non-GMO product. No genetically modified organisms are used as raw materials or at any point in the production process.

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7.2 Non-ETO Statement

NON-ETO STATEMENT

We hereby certify that this product has not been sterilized by ethylene oxide (ETO) processing at any point during the manufacturing process.

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7.3 Non-Irradiation / Non-Ionized Statement

NON-IRRADIATION / NON-IONIZED STATEMENT

We hereby certify that the product has not been sterilized by ionizing radiation at any point during the entire manufacturing process and therefore is in full compliance with the relevant legislated regulations, Directives 1999/2/EC & 1999/3/EC, concerning foods and food ingredients treated with ionizing radiation.

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7.4 Melamine-Free Statement

MELAMINE-FREE STATEMENT

We hereby certify that the product is free from melamine.

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7.5 Gluten-Free Statement

GLUTEN-FREE STATEMENT

We hereby certify that the product is free from gluten and gluten-containing ingredients.

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7.6 Pesticide-Free Statement

PESTICIDE-FREE STATEMENT

We hereby certify that the product is free from pesticide residues.

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7.7 BSE/TSE-Free Statement

BSE/TSE-FREE STATEMENT

We hereby certify that no raw materials of bovine spongiform encephalopathy (BSE) / transmissible spongiform encephalopathy (TSE) origin are used in the production of this product.

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7.8 GRAS Statement

GRAS STATEMENT

We hereby certify that this product is Generally Recognized As Safe (GRAS) for its intended food use. This self-affirmation applies to the supplied raw material itself, not to finished consumer products formulated by customers.

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7.9 Vegetarian / Vegan Statement

VEGETARIAN / VEGAN STATEMENT

We hereby certify that this product complies with vegetarian and vegan requirements and contains no animal-derived ingredients.

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7.10 No Sewer Sludge Statement

NO SEWER SLUDGE STATEMENT

We hereby certify that no sewer sludge is used in the production process.

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7.11 Allergen Statement

ALLERGEN STATEMENT

According to the complete allergen statement, this product is manufactured free from the following allergen sources: tree nuts, peanuts, sesame, dairy, eggs, rice, wheat, soy, corn, gluten, oat, barley, fruit, yeast, vegetables, fish, crustaceans, mollusks, mustard, celery, lupin, caffeine, beef, pork and lamb derivatives, and animal-derived gelatin. The product is also free from artificial flavorings, colors and preservatives, MSG, benzoates, sulphites, BHA/BHT, artificial sweeteners, sugar alcohols, alcohol and unrefined oils.

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7.12 Heavy Metals Statement

HEAVY METALS STATEMENT

According to the supplied test report, the heavy metal content of this product is: lead (Pb) not detected (LOQ 0.05 mg/kg) and total arsenic (As) not detected (LOQ 0.03 mg/kg).

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7.13 Main Starting Materials Statement

MAIN STARTING MATERIALS STATEMENT

We hereby certify that the main starting materials of this product include glucose, peptone and yeast powder.

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7.14 Country of Origin

COUNTRY OF ORIGIN

The product is produced and packaged in China. Country of origin: China.

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7.15 Expected Usage

EXPECTED USAGE

The expected usage of this product is its incorporation as an ingredient in food-grade dietary supplements, functional foods and cosmetics, subject to the regulations of the country of use.

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8. HANDLING, STORAGE & TRANSPORT

Item	Information
Storage	Store in an airtight container protected from light; cold storage at 2-10 °C is recommended. Keep in a cool and dry place, away from direct sunlight.
Handling	Ensure good ventilation at the workplace; wash thoroughly after handling.
Transport	Keep dry and away from direct sunlight; avoid high temperature and humidity.
Hazard classification	Not classified as hazardous (no hazard pictogram / signal word per CLP, Regulation (EC) No 1272/2008).
Transport regulation	Not regulated for transport (ADR/RID, ADN and sea transport).
Shelf life	3 years (unopened packaging).
Packaging	According to customer requirements.

Safety notes: This product is a food-grade raw material and not a medicine. It is not classified as harmful to human health. A Safety Data Sheet (SDS) is available upon request. Keep out of reach of children.

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Authorized signature & company stamp

This Technical Data Sheet is issued by KEEP INGREDIENTS CO. LTD and is valid together with the supplied Certificate of Analysis. The information given is based on our knowledge of the product at the time of publication and is given in good faith; it does not exempt the user from applying the regulations governing the use, storage and labelling of the product in their own country. A Material Safety Data Sheet (MSDS) is available upon request.

