TECHNICAL DATA SHEET

Hydrolysed Keratin Peptide (99%, Wool Source)

Animal Protein Peptide | Food & Cosmetic 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

Hydrolysed Keratin Peptide is a natural protein peptide produced from 100% natural wool (sheep wool scraps) by high-temperature hydrolysis combined with enzymatic hydrolysis, followed by filtration, concentration, spray drying and final testing. It is an off-white free-flowing powder with a protein content (dry basis, conversion factor 6.25) of ≥ 99.0%. No other additives are incorporated into the finished product.

Product Information

Item	Information
Product name	Hydrolysed Keratin Peptide
Product aliases	Hydrolyzed keratin, keratin hydrolysate, animal-protein peptide
Product source	Hydrolyzed from animal fur (sheep wool scraps)
CAS No.	69430-36-0
Product purity	≥ 99% (protein, dry basis)
Grade	Food & cosmetic grade
Appearance	Off-white free-flowing powder (uniform, soft, no caking)
Sieve mesh size	80-100 mesh
Applicable standard	GB 31645-2018 (National Food Safety Standard - Collagen Peptides)
Batch No.	KYHKP2026070701
Shelf life	24 months
Recommended dosage	0.5%-3%



2. PRODUCT SPECIFICATION

2.1 Characters

Item	Standard
Appearance	Uniform powder, soft, no caking
Color	Off-white powder
Taste and smell	Unique taste and smell, no odour
Impurity	No visible exogenous impurity

2.2 Physical & Chemical Specifications

Item	Standard
Protein (dry basis, conversion factor 6.25)	≥ 99.0 g/100 g
Moisture	≤ 7.0%
Ash	≤ 7.0%
pH (in 6.67% aqueous solution)	5.5-7.5
Particle size	80-100 mesh

2.3 Heavy Metals

Item	Standard
Lead (Pb)	≤ 10.0 mg/kg
Arsenic (As)	≤ 2.00 mg/kg
Mercury (Hg)	≤ 1.0 mg/kg
Cadmium (Cd)	≤ 5.0 mg/kg

2.4 Microbiological Specifications

Item	Standard
Total bacteria	≤ 500 CFU/g
Mold & yeast	≤ 100 CFU/g
Heat-resistant coliforms	Negative
Harmful bacteria (Staphylococcus aureus, Pseudomonas aeruginosa)	Negative



3. PROCESS CHART

The product is manufactured from sheep wool scraps via high-temperature hydrolysis combined with enzymatic hydrolysis. Deodorization and decolorization are carried out with food-grade activated carbon. No extra additives are incorporated into the finished product.

Raw Material (sheep wool scraps)

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Flowing Water Cleaning

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Extraction (High-temperature Hydrolysis + Enzymatic Hydrolysis)

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Extract Filtration

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Deodorization & Decolorization (food-grade activated carbon)

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Refined Filtration

▼

Concentration

▼

Aseptic Filtration & Foreign Matter Control

▼

Spray Drying

▼

UV Disinfection

▼

Quantitative Filling

▼

Inner Packaging

▼

Finished Product Testing

▼

Outer Packaging & Warehousing



4. CERTIFICATE OF ANALYSIS

Item	Data
Product name	Hydrolysed Keratin Peptide
Batch No.	KYHKP2026070701
Batch weight	2,000 kg
Manufacturing date	2026.07.07
Shelf life	24 months
Inspection basis	GB 31645-2018

4.1 Analytical Results

Item	Standard	Result	Evaluation
Appearance	Uniform powder, soft, no caking	Conforms	Qualified
Color	Off-white powder	Conforms	Qualified
Taste and smell	Unique taste and smell, no odour	Conforms	Qualified
Impurity	No visible exogenous impurity	Conforms	Qualified
Stacking density	—	0.17 g/mL	Qualified
Protein (dry basis, factor 6.25)	≥ 99.0 g/100 g	99.10	Qualified
Moisture	≤ 7.0%	3.42%	Qualified
Ash	≤ 7.0%	2.39%	Qualified
pH (6.67% aqueous solution)	5.5-7.5	6.01	Qualified
Lead (Pb)	≤ 10.0 mg/kg	Not detected	Qualified
Arsenic (As)	≤ 2.00 mg/kg	0.13 mg/kg	Qualified
Mercury (Hg)	≤ 1.0 mg/kg	Not detected	Qualified
Cadmium (Cd)	≤ 5.0 mg/kg	Not detected	Qualified
Total bacteria	≤ 500 CFU/g	Conforms	Qualified
Mold & yeast	≤ 100 CFU/g	Conforms	Qualified
Heat-resistant coliforms	Negative	Not detected	Qualified
Harmful bacteria (S. aureus, P. aeruginosa)	Negative	Not detected	Qualified

Conclusion: The product is qualified.



5. NUTRITIONAL INFORMATION

Nutritional information per 100 g of Hydrolysed Keratin Peptide.

Test item	Unit	Test result	NRV%
Energy	kJ/100 g	1657	20%
Protein	g/100 g	94.4	157%
Fat	g/100 g	1.0	2%
Carbohydrates	g/100 g	0.9	0%
Moisture	g/100 g	3.66	/
Ash	g/100 g	0.027	/
Sodium	mg/100 g	32	2%

Note: NRV (Nutrient Reference Value) percentages are calculated for reference.



6. APPLICATIONS

6.1 Cosmetic Applications

Field	Typical use
Skin-care products	Facial masks, lotions, serums and other skin-care items; delivers long-lasting moisturizing and nourishing effects, relieves dry and rough skin
Hair-care products	Shampoos and conditioners; repairs damaged hair, prevents split-ends and breakage, renders hair smoother and shinier
Oral-care products	Toothpaste, mouthwash and other oral-care articles

6.2 Food Applications

Field	Typical use
Meat products	Food additive to enhance nutritional value and sensory properties; improves tenderness, water-holding capacity and stability
Baked goods (biscuits & bread)	Nutritional fortifier; raises protein content and nutritional value, optimizes mouthfeel and texture
Other food applications	Beverages, dairy products, condiments, etc.; as a nutritional supplement or thickener

Recommended dosage: 0.5%-3%.

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-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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7.2 Heavy Metals Statement

HEAVY METALS STATEMENT

According to the supplied Certificate of Analysis, the heavy metal content of this product is: lead (Pb) not detected, arsenic (As) 0.13 mg/kg, mercury (Hg) not detected and cadmium (Cd) not detected, all well within the applicable limits.

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7.3 Non-GMO Statement

NON-GMO STATEMENT

This product is a Non-GMO product. It is derived from non-GMO natural wool raw materials, manufactured in our Non-GMO certified production facility. No GMO cross-contamination or genetically modified ingredients are involved throughout the whole production process.

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7.4 Allergen Statement

ALLERGEN STATEMENT

We hereby declare that Hydrolysed Keratin Peptide 99% is manufactured free from any allergen sources, and is packed in facilities that do not allow exposure to peanuts, wheat/gluten, eggs, tree nuts, sesame, fish or crustacean. In accordance with European Directive 2007/68/EC and updates, the product is free from cereals containing gluten, crustaceans, eggs, fish, peanuts, soy, milk, mustard, sesame seeds, molluscs and their products.

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7.5 Ingredient & Composition Statement

INGREDIENT & COMPOSITION STATEMENT

This product is produced from 100% natural keratin raw material, without any other additives. The composition of the product is Hydrolysed Keratin Peptide at ≥ 99%. This product is 99% pure hydrolysed keratin peptide, derived from natural keratin raw materials.

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7.6 GRAS Statement

GRAS STATEMENT

KEEP INGREDIENTS CO. LTD self-affirms that Hydrolysed Keratin Peptide (wool-sourced, 99% protein purity) is Generally Recognized As Safe (GRAS) under its intended conditions of use for human food / dietary supplement applications according to the U.S. FDA framework, 21 CFR Part 170. This GRAS conclusion is a company self-affirmation; the ingredient has not been submitted for FDA GRAS Notice review. This self-affirmation applies only to the supplied raw material itself, not to finished consumer products formulated by customers.

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7.7 Country of Origin

COUNTRY OF ORIGIN

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

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7.8 Expected Usage

EXPECTED USAGE

The expected usage of this product is its incorporation as a protein-source ingredient in conventional foods, dietary supplements and cosmetics, subject to the regulations of the country of use.

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8. HANDLING, STORAGE & TRANSPORT

Item	Information
Storage	Store in sealed containers away from light; keep in a cool and dry place (temperature ≤ 25 °C, relative humidity ≤ 65%).
Handling	Keep away from high temperature, humidity, direct sunlight and odour-generating surroundings.
Transport	Keep dry and away from direct sunlight; avoid high temperature and humidity.
Shelf life	24 months under standard storage conditions.
Packaging	1 kg/aluminum-foil bag; 10-15 kg/carton; 10-15 kg/fiber drum (lined with food-grade PE bag).

Safety notes: This product is a food raw material and not a medicine. Under normal handling and consumption, no acute toxicity, skin/eye irritation or sensitization risks have been identified. Keep out of reach of children.

KEEP INGREDIENTS CO. LTD

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.