TECHNICAL DATA SHEET

Lyophilized Royal Jelly Powder (10-HDA 4.0%)

Fresh Rapeseed Royal Jelly | Vacuum Freeze-Dried | 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

Lyophilized Royal Jelly Powder (10-HDA 4.0%) is produced from fresh rapeseed royal jelly by vacuum freeze-drying at ultra-low temperature (about -55 °C) under vacuum, whereby the water is removed by sublimation. This gentle process maximally preserves the active constituents of fresh royal jelly. The product is a food-grade powder that is stable for two years at room temperature, easy to store and convenient to take.

Product Information

Item	Information
Product name	Lyophilized Royal Jelly Powder (10-HDA 4.0%)
Source	Fresh rapeseed royal jelly (Apis mellifera)
Production process	Filtration → Pre-freezing → Vacuum freeze drying → Low-temperature milling → Forming → Aseptic sealed packaging
Grade	Food grade
Appearance	Off-white to pale yellow loose powder, strongly hygroscopic
Odor & taste	Characteristic royal jelly aroma; sour, astringent and slightly sweet taste
Particle size	80-100 mesh (customizable)
Core index	10-Hydroxy-2-decenoic acid (10-HDA) ≥ 4.0% (dry basis)
Composition	100% lyophilized royal jelly powder; no artificial pigments, flavors, preservatives or additives
Main applications	Dietary supplements, functional foods, solid beverages, cosmetic raw materials, deep-processed food raw materials
Shelf life	24 months (standard storage conditions)
Storage	Sealed, light-proof, dry and cool; long-term storage recommended at -18 °C

2. PRODUCT SPECIFICATION

2.1 Physicochemical Specifications

Test item	Specification	Test method
10-Hydroxy-2-decenoic acid (10-HDA)	≥ 4.0% (dry basis)	GB 9697 / HPLC
Moisture	≤ 5.0%	GB 5009.3
Protein	≥ 33.0%	GB 5009.5 (Kjeldahl)
Total ash	≤ 4.0%	GB 5009.4
Acidity (1 mol/L NaOH)	90-159 mL/100 g	GB 9697
Starch	Not detected	GB 5009.9

2.2 Microbiological Specifications

Test item	Specification
Total aerobic bacteria	≤ 1,000 CFU/g
Yeast & mold	≤ 100 CFU/g
Coliforms	≤ 10 CFU/g
Salmonella	Negative / 25 g

2.3 Main Components

Rich in 10-HDA, natural active proteins, various amino acids, B vitamins, superoxide dismutase (SOD), acetylcholine and trace elements. No artificial pigments, flavors, preservatives or additives.

3. PROCESS CHART

The product is manufactured by vacuum freeze-drying of fresh royal jelly. Quality checks are carried out on the raw material at reception, after milling, on the finished product and before dispatch.

Raw Material Reception & Inspection (fresh royal jelly tested per enterprise standard)

▼

Thawing

▼

Filtration (removal of impurities)

▼

Pre-freezing

▼

Vacuum Freeze Drying (about -55 °C)

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Low-temperature Milling (followed by physicochemical & microbial testing)

▼

Forming

▼

Aseptic Sealed Packaging

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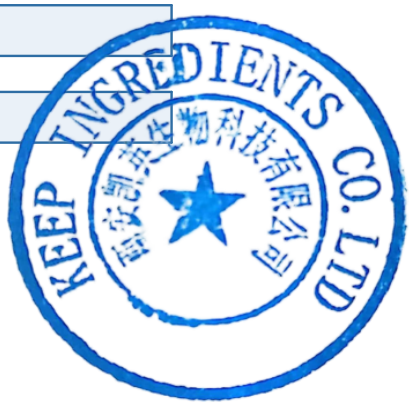
Finished Product Inspection (per enterprise standard)

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Pre-shipment Re-inspection

▼

Storage / Warehousing



4. CERTIFICATE OF ANALYSIS

Analytical results are compiled from the supplied inspection report.



Item	Data
Product name	Lyophilized Royal Jelly Powder
Specification	10-HDA ≥ 4.0%
Batch No.	KYRJ2026090301
Inspection basis	GB/T 21532-2008
Packaging	5 kg/bag; 25 kg/drum
Shelf life	24 months

4.1 Organoleptic Characteristics

Item	Specification	Result	Evaluation
Color	Milky white to light yellow	Light yellow	Conforms
State	Powder, free from visible black spots	Powder, no impurities	Conforms
Odor	Pure royal jelly aroma, free from fermentation or off-odor	Fresh royal jelly aroma, no off-odor	Conforms
Taste	Markedly sour, astringent and spicy, with slightly sweet aftertaste	Sour, astringent and spicy, slightly sweet aftertaste	Conforms

4.2 Physicochemical & Safety Indicators

Item	Specification	Result	Evaluation
10-HDA (%)	≥ 4.0	4.05	Conforms
Moisture (%)	≤ 5.0	2.6	Conforms
Acidity (NaOH mL/100 g)	90-159	102	Conforms
Protein (%)	≥ 33	34.8	Conforms
Ash (%)	≤ 4.0	2.7	Conforms
Total sugar (as glucose, %)	≤ 45	39	Conforms
Starch	Not detected	Not detected	Conforms
Chloramphenicol (μg/kg)	< 0.3	< 0.3	Conforms
Lead (Pb, mg/kg)	≤ 0.5	0.48	Conforms

4.3 Microbiological Indicators

Item	Specification	Result	Evaluation
Total plate count (CFU/g)	≤ 1,000	< 10	Conforms
Coliforms (MPN/100 g)	≤ 0.92	< 0.3	Conforms
Mould & yeast (CFU/g)	≤ 25	< 10	Conforms
Pathogenic bacteria	Not detected	Not detected	Conforms

Conclusion: The product conforms to the enterprise standard.

5. PRODUCT STATEMENTS

5.1 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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5.2 BSE/TSE Statement

BSE/TSE STATEMENT

Lyophilized Royal Jelly Powder is a natural bee product derived from the honeybee (Apis mellifera). It contains no material of ruminant origin and no material derived from, or exposed to, ruminants affected by or under quarantine for transmissible spongiform encephalopathy (TSE) / bovine spongiform encephalopathy (BSE). No material derived from specified risk materials (SRM) is used, and the product poses no BSE/TSE risk.

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5.3 Heavy Metals Statement

HEAVY METALS STATEMENT

According to the supplied inspection report, the lead (Pb) content of this product is 0.48 mg/kg, meeting the limit of ≤ 0.5 mg/kg.

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5.4 Non-GMO Statement

NON-GMO STATEMENT

This product is produced without the use of raw materials or auxiliary materials derived from genetically modified (GMO) sources, and control procedures are in place to avoid cross-contamination with GMO ingredients.

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5.5 Allergen Statement

ALLERGEN STATEMENT

This product is manufactured and packaged without the following major allergens: cereals containing gluten (e.g. wheat, rye, barley, oats, spelt and their hybridised strains); crustaceans and their products; fish and fish products; eggs and egg products; peanuts and peanut products; soybeans and soybean products; milk and dairy products (including lactose); tree nuts and their products.

Note: the product is a bee product. It is not intended for persons with known allergy or sensitivity to bee products (e.g. honey or royal jelly).

5.6 Country of Origin

COUNTRY OF ORIGIN

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

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5.7 Expected Usage

EXPECTED USAGE

The expected usage of this product is its incorporation as a natural functional ingredient in dietary supplements, functional health foods, solid beverages, cosmetic raw materials and deep-processed food raw materials.

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6. HANDLING, STORAGE & TRANSPORT

Item	Information
Storage	Stored in sealed, light-proof, dry and cool conditions. Long-term storage recommended at -18 °C.
Handling	The product is strongly hygroscopic; use immediately after opening to avoid moisture caking.
Transport	Keep sealed, dry and away from direct sunlight; avoid high temperature and humidity.
Shelf life	24 months under standard storage conditions (stable for 2 years at room temperature).

Safety notes: This product is a food raw material and not a medicine. Prohibited for people with bee product allergies. Strictly avoid storage under high temperature, direct sunlight and humid conditions.

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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.

