TECHNICAL DATA SHEET

Acerola Cherry Extract (Vitamin C 17%)

Malpighia glabra L. | Food Grade | Country of Origin: China

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

Acerola Cherry Extract is produced from the fruit of Malpighia glabra L. by water extraction, followed by filtration, concentration, sterilization and spray drying. It is standardized on a vitamin C content of 17% (as determined by titration) and is a natural source of vitamin C for use in dietary supplements, food and beverages, and cosmetics.

Product Information

Item	Information
Product name	Acerola Cherry Extract (Vitamin C 17%)
Botanical name	Malpighia glabra L.
Part used	Fruit
Extract solvent	Water
Vitamin C content	Min. 17% (titration)
Grade	Food grade
Appearance	Light yellow powder (other colour forms available, see Section 5)
Batch No.	KYACE2025120301
Shelf life	2 years
Storage	Cool, dry, clean storage areas; away from strong direct light and heat
Packing	Fibre drums with two food-grade PE bags inside; net weight 25 kg/drum



2. PRODUCT SPECIFICATION

2.1 Characters

Item	Reference	Standard	Result
Appearance	Visual	Light yellow powder	Conforms
Odour	Organoleptic	Characteristic	Conforms
Taste	Organoleptic	Characteristic	Conforms

2.2 Assay

Item	Reference	Standard	Result
Vitamin C	Titration	Min. 17%	19.35%

2.3 Physical & Chemical Specifications

Item	Reference	Standard	Result
Particle size	80 mesh screen	Min. 95% pass 80 mesh	Conforms
Bulk density	CP<2020>	0.3-0.6 g/ml	Conforms
Loss on drying	5 g / 105 °C / 2 hrs	Max. 5%	3.46%
Ash content	2 g / 525 °C / 3 hrs	Max. 5%	0.13%

2.4 Heavy Metals

Item	Reference	Standard	Result
Heavy metals (total)	CP<2020>	Max. 10 ppm	< 10 ppm
Lead (Pb)	ICP-MS	Max. 3 ppm	< 3 ppm
Arsenic (As)	ICP-MS	Max. 2 ppm	< 2 ppm
Cadmium (Cd)	ICP-MS	Max. 1 ppm	< 1 ppm
Mercury (Hg)	ICP-MS	Max. 0.1 ppm	< 0.1 ppm

2.5 Microbiological Specifications

Item	Reference	Standard	Result
Total aerobic count	CP<2020>	Max. 1,000 CFU/g	Conforms
Mold and yeast	CP<2020>	Max. 100 CFU/g	Conforms
E. coli	CP<2020>	Negative / 1 g	Conforms
Salmonella	CP<2020>	Negative / 25 g	Conforms



3. PROCESS CHART

Raw Material — High-quality acerola cherry raw material (starting material for production)

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Extraction — Extract active ingredients and beneficial substances from the acerola cherry raw material

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Filtration — Remove impurities, insoluble particles and other unwanted substances from the extracted solution

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Concentration — Concentrate the filtered extract to increase the content of target components

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Sterilization — Professional sterilization technology to ensure product safety and microbial compliance

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Spray Drying — Convert the sterilized concentrated extract into powder form through spray drying

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Powder Collection — Collect the dried acerola cherry extract powder uniformly

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Blending — Mix the collected powder thoroughly to ensure consistent quality, colour and component distribution

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Sieving — Sieve the blended powder to achieve uniform particle size and remove possible agglomerates

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Packaging — Package the qualified powder in accordance with standard specifications to ensure product preservation

▼

Warehousing — Store the packaged finished products in a suitable warehouse environment (controlled temperature, humidity, etc.)



4. CERTIFICATE OF ANALYSIS

Item	Data
Product name	Acerola Cherry Extract
Botanical name	Malpighia glabra L.
Batch No.	KYACE2026050301
Quantity	2,000 kg
Manufacturing date	May 3rd, 2026
Expiry date	May 2nd, 2028
Part used	Fruit
Extract solvent	Water
Shelf life	2 years
Country of origin	China



4.1 Characters

Item	Result
Appearance	Light yellow powder
Odour	Characteristic
Taste	Characteristic

4.2 Assay

Item	Reference	Standard	Result
Vitamin C	Titration	Min. 17%	19.35%

4.3 Physical & Chemical / Heavy Metals / Microbiological Results

Item	Reference	Standard	Result
Particle size	80 mesh screen	Min. 95% pass 80 mesh	Conforms
Bulk density	CP<2020>	0.3-0.6 g/ml	Conforms
Loss on drying	5 g / 105 °C / 2 hrs	Max. 5%	3.46%
Ash content	2 g / 525 °C / 3 hrs	Max. 5%	0.13%
Heavy metals (total)	CP<2020>	Max. 10 ppm	< 10 ppm
Lead (Pb)	ICP-MS	Max. 3 ppm	< 3 ppm
Arsenic (As)	ICP-MS	Max. 2 ppm	< 2 ppm
Cadmium (Cd)	ICP-MS	Max. 1 ppm	< 1 ppm
Mercury (Hg)	ICP-MS	Max. 0.1 ppm	< 0.1 ppm
Total aerobic count	CP<2020>	Max. 1,000 CFU/g	Conforms
Mold and yeast	CP<2020>	Max. 100 CFU/g	Conforms
E. coli	CP<2020>	Negative / 1 g	Conforms
Salmonella	CP<2020>	Negative / 25 g	Conforms

Conclusion: The product conforms to the applicable specification.

4.4 Ethylene Oxide Residue Testing (Third-Party Laboratory)

Analyte	Method	Result	LOQ / LOD
2-Chloroethanol (as ethylene oxide)	EURL-SRM	< 0.01 mg/kg	0.01 mg/kg (LOQ)
Ethylene oxide	EURL-SRM	< 0.01 mg/kg	0.01 mg/kg (LOD)
Ethylene oxide (sum of ethylene oxide and 2-chloroethanol, expressed as ethylene oxide)	EURL-SRM	< 0.01 mg/kg	0.01 mg/kg (LOQ)

Ethylene oxide residues were tested by an independent third-party laboratory and were found to be below the limit of detection/quantification in all cases, supporting the non-ETO status of the product.



5. AVAILABLE SPECIFICATIONS & FORMS

Acerola cherry extract is offered in two market-standard vitamin C specifications. Customized specifications and forms are available on request.

5.1 Available Specifications

Specification	Vitamin C content	Note
Vitamin C 17%	Min. 17% (pure)	Natural vitamin C content achieved directly from the fruit; the standard specification documented in this TDS
Vitamin C 25%	25% (by fortification)	Achieved by adding vitamin C to the 17% base; content verified on the COA of each batch

5.2 Available Colour Forms

Colour form	Description
Light yellow powder	Standard form
Light pink powder	Available on request
Brownish-yellow powder	Available on request

KEEP INGREDIENTS provides a customized service: the required specification and colour form are selected according to the customer's application. As a natural product, slight colour variations from lot to lot may occur due to crop fluctuations from harvest.

6. NUTRITIONAL INFORMATION

Nutritional information per 100 g of Acerola Cherry Extract (Vitamin C 17%). The calculation method and format of NRV% refer to GB 28050-2011 and are for reference only.

Item	Per 100 g	NRV%
Energy	1670 kJ	20%
Protein	2.3 g	4%
Fat	1.4 g	2%
Carbohydrates	92.9 g	31%
Sodium	39 mg	2%

Note: NRV (Nutrient Reference Value) percentages are calculated in accordance with GB 28050-2011 and are for reference only.



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 Non-ETO Statement

NON-ETO (ETHYLENE OXIDE) STATEMENT

We hereby certify that the product has not been treated with ethylene oxide (ETO). Ethylene oxide residues, including 2-chloroethanol (expressed as ethylene oxide) and the sum of ethylene oxide and 2-chloroethanol, were found to be below the limit of detection/quantification by third-party laboratory testing (all < 0.01 mg/kg).

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7.3 BSE/TSE Statement

BSE/TSE STATEMENT

Acerola Cherry Extract is a plant-derived product (from Malpighia glabra L.). It contains no material of animal or 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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7.4 Heavy Metals Statement

HEAVY METALS STATEMENT

According to the supplied Certificate of Analysis, the heavy metal content of this product is: total heavy metals < 10 ppm, lead (Pb) < 3 ppm, arsenic (As) < 2 ppm, cadmium (Cd) < 1 ppm and mercury (Hg) < 0.1 ppm, all within the applicable limits.

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7.5 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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7.6 Allergen Statement

ALLERGEN STATEMENT

This product is manufactured and packaged without the following major allergens: cereals containing gluten; 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.

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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 natural vitamin C functional ingredient in dietary supplements, food and beverages, and cosmetics.

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8. HANDLING, STORAGE & TRANSPORT

Item	Information
Storage	Store in cool, dry, clean storage areas. Keep away from strong direct light and heat.
Handling	Keep the package sealed after opening; avoid moisture and high temperature.
Transport	Keep dry and away from direct sunlight; avoid high temperature and humidity.
Shelf life	2 years under standard storage conditions.
Packing	Fibre drums with two food-grade PE bags inside; net weight 25 kg/drum.

Safety notes: This product is a food raw material and not a medicine. As a natural product, slight colour variations from lot to lot may occur due to crop fluctuations from harvest. 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.