KEEP INGREDIENTS CO. LTD

No. 2019, Unit 1, Building 10, Yuexiucheng Phase 1, Guodu Xuefu Street, Chang'an District, Xi'an, Shaanxi, 710119, China

TECHNICAL DATA SHEET

Artichoke Extract (Cynarin 5%, Water-Soluble)

1. PRODUCT DESCRIPTION

Artichoke Extract is a botanical extract derived from Cynara scolymus L. (artichoke), standardized to a minimum of 5% cynarin (determined by UV). Cynarin is the main active constituent naturally present in the artichoke raw material. The extract is obtained by physical extraction and purification of the artichoke botanical raw material; no other plant- or animal-derived raw materials are added. The product is a fine, water-soluble powder, suitable for use in functional foods, beverages, pharmaceuticals and cosmetics.

2. PRODUCT INFORMATION

Item	Information
Product name	Artichoke Extract (Cynarin 5%)
Botanical name	Cynara scolymus L. (Artichoke)
Plant part used	Fruit
Active indicator	Cynarin ≥ 5% (UV)
Solubility	Readily soluble in water
Appearance	Fine powder, yellowish-brown, characteristic odour and taste
Source	100% plant-derived; physical extraction and purification
Supplier	KEEP INGREDIENTS CO. LTD, Xi'an, Shaanxi, China
Country of origin	China
Shelf life	2 years under recommended storage conditions
Storage	Sealed, cool and dry place at 2–8 °C, protected from strong light and heat, avoiding moisture absorption
Applications	Functional foods, beverages, pharmaceuticals and cosmetics

3. PRODUCT SPECIFICATION

Item	Specification
Cynarin	≥ 5% (UV)
Appearance	Fine powder
Colour	Yellowish-brown
Odour & taste	Characteristic
Loss on drying	≤ 5.0%
Ash	≤ 5.0%
Sieve analysis	NLT 98% pass 80 mesh

Item	Specification
Heavy metals	≤ 10 ppm
Cadmium (Cd)	≤ 1 ppm
Mercury (Hg)	≤ 0.1 ppm
Lead (Pb)	≤ 3 ppm
Arsenic (As)	≤ 1 ppm
Bulk density	45–65 g/100 ml
Total plate count	≤ 10,000 CFU/g
Yeast & mould	≤ 1,000 CFU/g
E. coli	Negative
Salmonella	Negative

Expiration date: 2 years when stored properly. Storage: store in a dry and cool place, keep away from strong light and heat.

4. WATER SOLUBILITY

Artichoke Extract Cynarin 5% is a water-soluble powder: it is readily soluble in water, forming a clear to slightly opalescent solution. This makes it convenient for direct incorporation into water-based and beverage applications, as well as other food, pharmaceutical and cosmetic formulations.

Figure 1 — Water-soluble Artichoke Extract: powder and aqueous solution

5. PRODUCTION PROCESS

The product is manufactured from artichoke botanical raw material by water extraction and spray-drying. The main process steps (with HACCP critical control points) are as follows:

- Raw material acceptance (QC) → raw material storage / retention → raw material preparation (if required)
- Extraction with purified water → filtration → vacuum concentration → spray drying (CCP2)
- Sieving → metal detection (CCP3) → blending → packaging
- Finished product inspection → finished product storage → finished product warehouse storage → shipment
- Side streams: residue disposal; rework / scrap disposal.

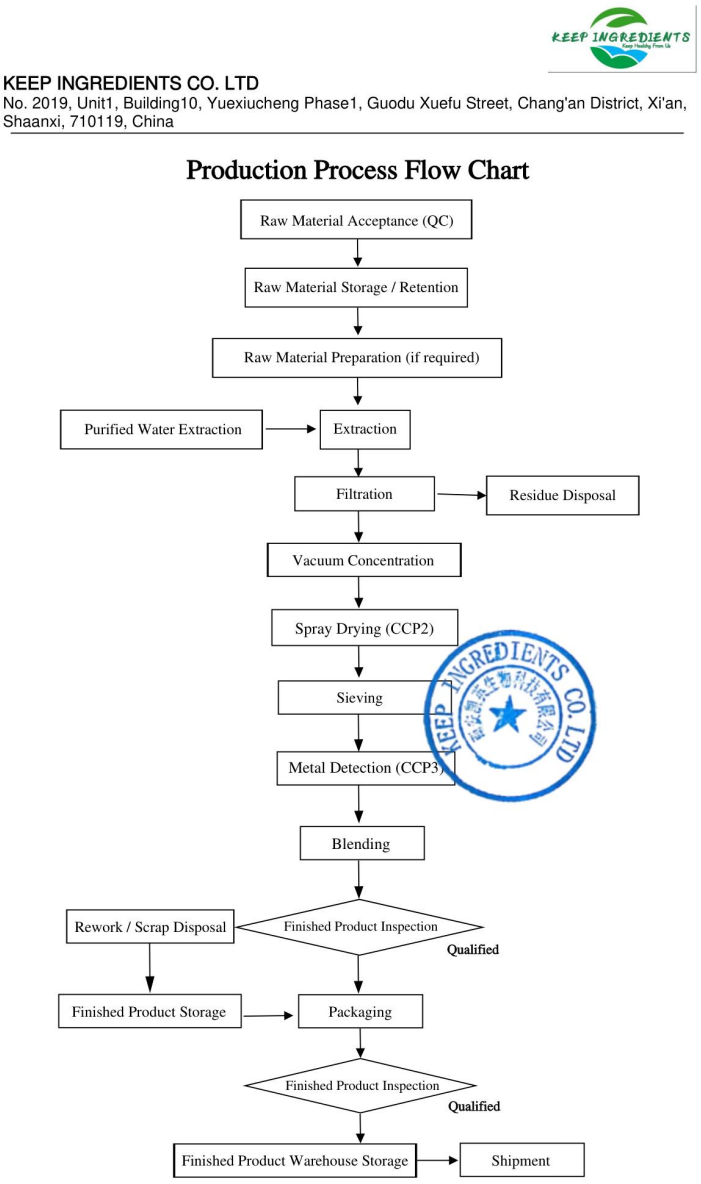


Figure 2 — Production process flow chart (with HACCP CCPs)

6. STORAGE AND TRANSPORTATION

- Store sealed in a cool, dry place at 2–8 °C, protected from strong light and heat, and avoid moisture absorption.
- Shelf life: 2 years under recommended storage conditions.
- Not classified as dangerous goods for transport.

7. STATEMENTS AND COMPLIANCE

Non-GMO. Artichoke Extract Cynarin 5% is a non-GMO product. The botanical raw material, Cynara scolymus L. (artichoke fruit), is non-genetically modified. The whole production process is carried out in independent non-GMO production facilities, so there is no GMO cross-contamination or relevant risk during production, processing and packaging.

TSE/BSE. The product is 100% plant-derived. Neither raw material nor manufacturing aids contain any animal-derived substances from ruminants; the product is free from TSE/BSE risk materials.

Source. The botanical source of the product is Cynara scolymus L. (artichoke). Cynarin is the main active constituent naturally present in the artichoke raw material. The extract is obtained from artichoke botanical raw material by physical extraction and purification; no other plant- or animal-derived raw materials are added.

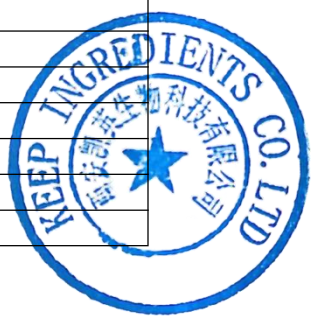
Safety. According to the Material Safety Data Sheet, the product is not classified as hazardous according to GHS criteria, and is not classified as dangerous goods for transport (NFPA: Health 1, Flammability 1, Reactivity 0).

Statements above are transcribed from the supplier's non-GMO statement, TSE/BSE statement, source declaration and material safety data sheet.

8. CERTIFICATE OF ANALYSIS

Field	Detail
Product name	Artichoke Extract
Batch number	KYARE2026071201
Botanical name	Cynara scolymus L.
Plant part used	Fruit
Manufacture date	2026.07.12
Report date	2026.07.19
Batch quantity	600 kg

Item	Specification	Result
Cynarin	≥ 5%	5.13% (UV)
Appearance	Fine powder	Complies
Colour	Yellowish-brown	Complies
Odour & taste	Characteristic	Complies
Loss on drying	≤ 5.0%	4.01%
Ash	≤ 5.0%	3.27%
Sieve analysis	NLT 98% pass 80 mesh	Complies
Heavy metals	≤ 10 ppm	Complies
Cadmium (Cd)	≤ 1 ppm	Complies
Mercury (Hg)	≤ 0.1 ppm	Complies
Lead (Pb)	≤ 3 ppm	Complies



Item	Specification	Result
Arsenic (As)	≤ 1 ppm	Complies
Bulk density	45–65 g/100 ml	Complies
Total plate count	≤ 10,000 CFU/g	Complies
Yeast & mould	≤ 1,000 CFU/g	Complies
E. coli	Negative	Complies
Salmonella	Negative	Complies

Conclusion: conforms with specification. Expiration date: 2 years when stored properly. Storage: dry and cool place, away from strong light and heat. Results are transcribed from the supplied Certificate of Analysis for the above batch.

This Technical Data Sheet is based on the supplied Certificate of Analysis, specification, process flow chart, material safety data sheet and relevant statements. The information provided is based on the documents supplied by KEEP INGREDIENTS CO. LTD.