



KINTAI
金泰生物

西安金泰生物技术有限公司
Xi'an Kintai Biotech Inc.

Specifications for Milk Thistle Extract Powder

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1. General Description

Product Name	Milk Thistle Extract
Plant Source	Silybum marianum (L.) Gaertn.
Plant Part Used	Seed
Production Process	Dried Silybum marianum (L.) Gaertn. Seeds - Solvent Extraction - Purification & Concentration - Drying & Standardization - Testing and Packing
Active Marker	Silymarin
CAS No.	65666-07-1
Irradiation	Not irradiated
Sterilization Method	High Temperature & Pressure
Country of Origin	P.R.China

2. Organoleptic quality

Appearance	Fine powder, Brownish
Odor & Taste	Slight, Specific

3. Physical quality

Item	Specification	Testing method
Assay of Silymarin	≥40%	UV
Identification	Positive	TLC
Particle Size	90% through 80 mesh	CP2020
Loss on drying	≤ 5.0%	GB 5009.3 -(2 Hours 105 ° C)
Ash Content	≤ 0.6%	GB 5009.4
Solubility	Soluble 100% w/v in water at 25℃	Visual

Factory Address: East 16-3-1, Zhongnan High-tech Airport Industrial Park, Airport New City, Xixian New Area, Shaanxi, China.

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4. Chemical quality

Item	Specification	Testing method
Heavy Metals (Total)	≤10.0 ppm	Atomic Absorption-
Lead(Pb)	≤ 1.0 ppm	Atomic Absorption-GB5009.12
Arsenic(As)	≤ 2.0 ppm	Atomic Absorption-GB5009.11
Mercury(Hg)	≤ 0.5 ppm	Atomic Absorption-GB5009.17
Cadmium(Cd)	≤ 1.0 ppm	Atomic Absorption-GB5009.15
Residual Solvents	-	-
- N-hexane	≤ 290 ppm	GC (Gas Chromatography)
- Methanol	≤ 5000 ppm	GC (Gas Chromatography)
- Ethanol	≤ 10000 ppm	GC (Gas Chromatography)
- Acetone	≤ 5000 ppm	GC (Gas Chromatography)

5. Microbiological quality

Item	Specification	Testing method
Total Plate Count	≤ 1,000 CFU/g	GB 4789.2
Total Yeast and molds	≤ 50 CFU/g	GB 4789.15
E. coli	Negative/10g	GB4789.3
Salmonella spp.	Negative/10g	GB 4789.4
Staphylococcus aureus	Negative/10g	GB 4789.10

6. Packaging & Storage

Item	Description
Primary Packaging	Double-layer polyethylene bags with aluminum foil lining
Secondary Packaging	Sealed fiber drum (Typical 25 kg net weight)
Storage Conditions	Cool, dry place (15–25°C), protected from light and moisture
Shelf Life	24 months when properly stored

7. Quality Control Documentation

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Produced in compliance with the GB 29921-2021 National Food Safety Standard;

Certified under ISO 9001:2015 Quality Management System and ISO 22000:2018 Food

Safety Management System.

Certificate of Analysis (CoA) provided per batch.

Material Safety Data Sheet (MSDS) available upon request.

8. Disclaimer

This specification sheet is based on current data and quality controls. Users must conduct independent testing to ensure suitability for specific applications. Specifications may vary slightly between batches; refer to the CoA for exact values.

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