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

Specifications for Flax Seed Extract

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1. General Description

Product Name	Flax Seed Extract
Botanical Source	Linum usitatissimum L.
Part Used	Seed
Extraction Solvent	Ethanol & Water
Production Process	Botanical Raw Material → Cleaning & Crushing → Hydro-ethanolic Extraction → Filtration → Concentration under Vacuum → Purification (Chromatography) → Spray Drying → Sieving & Blending → Packaging → Quality Control Inspection.
Product Grade	Food Grade / Dietary Supplement Grade
Active Marker	Secoisolariciresinol Diglucoside (SDG) / Lignans
HS Code	1302.1990.99
Regulatory Compliance	Non-GMO;BSE/TSE Free; Cruelty-Free
CAS No.	148244-82-0 (SDG) / 112815-56-4 (Flax Lignans)
Irradiation	Not irradiated
Sterilization Method	High Temperature & High Pressure (Steam Sterilization)
Additive	None (100% Pure & Natural, free of excipients/carriers like maltodextrin)
Country of Origin	P.R.China

2. Organoleptic quality

Appearance	Fine powder, Brown	Testing Methods
Odor & Taste	Characteristic herbal odor,CharacteristicTaste	Visual
Identity	HP-TLC;Botanical reference	Organoleptic

3. Physical quality

Factory Address: East 16-3-1, Zhongnan High-tech Airport Industrial Park, Airport New City, Xixian New Area, Shaanxi, China.
Tel: +86-29-8525 4454 **Cell phone:** +86-133 4743 6038
Email: sales@kintai-bio.com **Web:** www.kintai-bio.com

Item	Specification	Testing method
Assay (Lignans, on dried basis)on dried basis)	≥ 20.0%	HPLC
Total Ash	< 5.0 %	550℃, 3h-GB 5009.4
Loss on Drying	< 5.0 %	105℃, 3h-GB 5009.3
Particle Size	95% through 80 mesh	CP 2025
Bulk Density	0.30 ~ 0.60 g/ml	CP 2025-0993
Tapped Density	0.45 ~ 0.80 g/ml	CP 2025-0993

4. Chemical quality

Item	Specification	Testing method
Heavy Metals (Total)	≤10.0ppm	ICP-MS
Arsenic(As)	≤ 1.0ppm	GB 5009.11
Lead(Pb)	≤ 3.0ppm	GB 5009.12
Mercury(Hg)	≤ 0.5ppm	GB 5009.17
Cadmium(Cd)	≤ 1.0ppm	GB 5009.15

5. Microbiological quality

Item	Specification	Testing method
Total Plate Count	≤ 10,000 CFU/g	GB 4789.2-2025
Total Yeast and molds	≤ 1,000 CFU/g	GB 4789.15-2025
E. coli	Negative	GB 4789.3-2025
Salmonella spp.	Negative	GB 4789.4-2025

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

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7.Quality Control Documentation

Certified under ISO 9001:2015 Quality Management System

Certificate of Analysis (CoA) provided per batch.

Material Safety Data Sheet (MSDS) available upon request.

7. 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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