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

TECHNICAL DATA SHEET (TDS) / SPECIFICATIONS FOR 90% BETULIN (BIRCH BARK EXTRACT)

Document No.:KT-SPEC-90BE-260210 *Revision Date:September 21, 2026

1. General Description

Product name	Betulin
Botanical Source	Betula platyphylla / Betula alba
Plant Part Used	Outer Bark
CAS Number	473-98-3
Chemical Class	Pentacyclic Triterpenoid
Country of Origin	P.R.China
Tariff Heading (HS Code)	1302.19 (Vegetable saps and extracts)
Product Grade	Food Grade / Nutritional Supplement Grade
INCI Name	Betulin
Extract Solvent	Ethanol / Water
Process Statement	Non-Irradiated / Non-ETO / Treated by Heat Only / Non-GMO

2. Organoleptic and Physical quality

Item	Specification	Testing method
Assay (Betulin)	≥90%(on dry basis)	HPLC
Purity (Betulin)	≥90%	HPLC
Identification	Positive by Retention Time	TLC
Appearance	Grey-white to off-white powder	Visual
Odor & Taste	Characteristic	Organoleptic
Particle Size	98% passing through 80 mesh	80 Mesh Screen
Ash	≤5.0%	CP2025 Ch. 2302

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Email: sales@kintaibio.com **Web:** www.kintai-bio.com

Loss on Drying	≤5.0%	CP2025 Ch. 2302

3. Contaminants & Heavy Metals Control

Item	Specification	Testing method
Heavy Metals	≤ 10.0 ppm	CP2025 Ch. 2321
Lead (Pb)	≤ 0.5 ppm	ICP-MS
Mercury (Hg)	≤ 0.1 ppm	ICP-MS

4. Microbiological quality

Item	Specification	Testing method
Total Plate Count	≤ 1,000 CFU/g	GB 4789.2
Total Yeast and molds	≤ 100 CFU/g	GB 4789.15
E. coli	Negative/0.1g	GB 4789.38
Salmonella	Negative/0.1g	GB 4789.4
Staphylococcus aureus	Negative/0.1g	GB 4789.10

5. 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

6. 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.

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7. Concomitant Triterpene Profile (reference only)

Because this is a 90% standardized extract, the remaining ~10% consists primarily of natural companion triterpenes from birch bark:

Betulinic Acid: 3.0% ～ 6.0% (HPLC)

Lupeol: 2.0% ～ 4.0% (HPLC)

8. Solubility Guide

Solubility Profile: This product is a strongly lipophilic substance. It is practically insoluble in water and cold petroleum ether; easily soluble in ethanol, chloroform, benzene, and pyridine; slightly soluble in hot vegetable oils.

9. Regulatory & Compliance Summary

BSE/TSE Status: 100% plant origin, free from any animal risk.

Allergen Statement: Free from major food allergens.

Conclusion: Conforms to Specification and CP2025 Standards.

10. 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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