品鸿生物科技
Pinhon Biotechnology

TECHNICAL DATA SHEET

PINHONBIO® Peony Root Extract (80% Paeoniflorin)

1. Product Overview

PINHONBIO® Peony Root Extract is a standardized botanical extract obtained from the root of Paeonia albiflora. The supplied grade is standardized to not less than 80.0% paeoniflorin by HPLC and is intended for use as a cosmetic raw material by professional formulators.

2. Product Identification

Product name	PINHONBIO® Peony Root Extract (80% Paeoniflorin)
INCI	PAEONIA ALBIFLORA ROOT EXTRACT
Plant part used	Root
Botanical source	Paeonia albiflora
Active marker	Paeoniflorin
CAS / EC (active marker)	23180-57-6 / 245-476-2
Molecular formula / weight (active)	C23H28O11 / 480.47 g/mol
Extraction solvent	Ethanol / water
Origin	Plant-derived
Geographical availability	Global

3. Function and Applications

- INCI function: skin conditioning.
- Typical use: skin-care and personal-care formulations requiring a standardized peony-root extract.
- Recommended use level and processing conditions should be established by the formulator through compatibility, stability and finished-product safety testing.

4. Formulation and Solubility Notes

Paeoniflorin is water-soluble and the material is soluble in methanol under the stated HPLC sample-preparation conditions. Because this product is a standardized botanical mixture, clarity and solubility in a finished formulation depend on solvent system, pH, temperature and other ingredients. Confirm compatibility in the intended formulation before scale-up.

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5. Technical Specification

Test	Specification	Method
Paeoniflorin	≥80.0%	HPLC
Identification	Consistent with reference standard	TLC
Appearance	Light yellow powder	Visual
Odor	Characteristic	Organoleptic
Particle size	≥99% passing 80 mesh	80-mesh sieve
Ash	≤1.0%	GB 5009.4
Moisture	≤3.0%	GB 5009.3
Arsenic (As)	≤1.0 mg/kg	GB 5009.11
Lead (Pb)	≤2.0 mg/kg	GB 5009.12
Mercury (Hg)	≤0.1 mg/kg	GB 5009.17
Cadmium (Cd)	≤1.0 mg/kg	GB 5009.15
Ethanol residue	≤2,000 ppm	GC
Pesticide residues: DDT, BHC/666	Each ≤1.0 ppm	GC
Total plate count	≤1,000 CFU/g	GB 4789.2
Yeasts and molds	≤100 CFU/g	GB 4789.15
Escherichia coli	Not detected	GB 4789.38
Salmonella spp.	Not detected	GB 4789.4

6. Analytical Method Summary

Paeoniflorin is determined by external-standard HPLC at 230 nm using a Hypersil ODS2 C18 column (5 µm, 250 × 4.6 mm), acetonitrile/0.1% phosphoric acid in water (20:80, v/v), 1.0 mL/min flow rate and 15 µL injection volume. Refer to the batch COA attachment for the complete method and chromatogram.

7. Packaging, Storage and Shelf Life

Packaging	Double food-grade plastic bags in an outer kraft paper bag or fiber drum.
Storage	Keep tightly closed in a cool, dry place protected from light and moisture.
After opening	Use promptly and reseal immediately after use.
Shelf life	24 months in the unopened original package when stored as recommended.

Regulatory note: The customer is responsible for confirming permitted use, use level, labelling and finished-product compliance in each target market. This document is technical information and does not replace the product specification, batch COA or SDS.