TECHNICAL DATA SHEET

PINHONBIO® Peony Root Extract (90% Paeoniflorin)

A white powder obtained from peony root and standardised by external-standard HPLC using paeoniflorin as the marker.

INCI name	PAEONIA ALBIFLORA ROOT EXTRACT
Botanical source	Paeonia lactiflora Pall., root
Extraction solvents / excipients	Ethanol and water / no added excipients

Quality specifications

Parameter	Specification
Paeoniflorin (HPLC, 230 nm)	≥90.0%
Appearance	White powder
Identification (TLC)	Sample spots match the positions of the reference standard spots.
Odour	Characteristic
Particle size	≥99% passes an 80-mesh sieve
Ash	≤3.0%
Moisture	≤5.0%
Residual ethanol	≤2,000 ppm
Pesticide residues	DDT and BHC (HCH) each ≤1.0 ppm
Elemental limits	As ≤1.0, Pb ≤2.0, Hg ≤0.1 and Cd ≤1.0 mg/kg
Total plate count	≤1,000 CFU/g
Yeasts and moulds	≤100 CFU/g
Escherichia coli and Salmonella spp.	Each: not detected

Formulation guidance

For formulations targeting a specific paeoniflorin level, calculate the extract addition from the assay on the lot certificate. Check dispersion in the selected vehicle.

Packaging and storage

Two food-grade plastic liners tied with cotton cord, in a kraft paper bag or fibre drum. Store tightly closed in a cool, dry place protected from light. Shelf life is 24 months from manufacture under these conditions.

Shaanxi Pinhon Biotechnology Co., Ltd. | tech@pinhoningredients.com