品鸿生物科技
Pinhon Biotechnology

Technical Data Sheet

PINHONBIO® Swertia Japonica Extract (Swertiamarin 95%)

TDS | Assay ≥95.0% | General product specification | Version 1.0

A concentrated Swertia japonica whole-herb extract standardized to at least 95% swertiamarin by HPLC, supplied as a powder for professional cosmetic formulation. This sheet defines the standing product specification and handling guidance across batches.

1. Product identity and composition

Product name	PINHONBIO® Swertia Japonica Extract (Swertiamarin 95%)
INCI name	SWERTIA JAPONICA EXTRACT
Botanical source	Swertia japonica (Schult.) Makino | Family: Gentianaceae
Plant part / extraction solvents	Dried whole herb / Ethanol and water
Active constituent	Swertiamarin; also spelled Swertimarin
CAS identifiers	Swertiamarin: 17388-39-5 | Swertia japonica extract: 94167-11-0
Active molecular formula / weight	C16H22O10 / 374.34 g/mol (swertiamarin only)
Declared composition	95% swertiamarin + 5% Swertia japonica extract (nominal composition).

2. Quality specification

Test item	Specification	Method
Swertiamarin content	≥95.0%	HPLC
Appearance	Light yellow to yellow powder	Visual examination
Odour	Characteristic	Organoleptic examination
Identification	Positive	TLC
Ash content	<3.0%	Gravimetry
Loss on drying	<5.0%	Gravimetry
Residual solvents	<2,000 mg/kg	Pharmacopoeial method
Particle size	≥98% passes an 80-mesh sieve	Sieve analysis
Lead (Pb)	<2 mg/kg	Elemental analysis
Arsenic (As)	<1 mg/kg	Elemental analysis
Mercury (Hg)	<0.5 mg/kg	Elemental analysis
Cadmium (Cd)	<1 mg/kg	Elemental analysis
Total plate count	≤1,000 CFU/g	Microbiological culture
Yeasts and moulds	≤100 CFU/g	Microbiological culture
Coliforms	Not detected	Microbiological culture
Salmonella	Not detected	Microbiological culture
Staphylococcus aureus	Not detected	Microbiological culture

1 mg/kg = 1 ppm. Microbial test portions, residual-solvent analytes and detailed conditions are defined in the controlled laboratory procedures. No tasting is required for quality evaluation.

3. Technical properties and applications

Product type: Swertia japonica extract enriched in swertiamarin, a secoiridoid glycoside. The botanical ingredient is used for skin conditioning in cosmetic products.

Solubility guidance: Public references describe swertiamarin as soluble in aqueous media and ethanol. The complete 95% botanical grade may show colour, haze or insoluble native extract material; screen dissolution at the intended concentration and temperature.

Application formats: Serums, lotions, creams, emulsions and masks developed for skin-conditioning applications. Botanical origin or assay alone does not establish finished-product efficacy or tolerance.

4. Formulation guidance

Introduce into a suitable water phase or a separately prepared compatible premix with mixing. Verify clarity, sediment formation, colour and odour in the complete formulation. Use the mildest practical processing conditions and minimize unnecessary exposure to strong light and heat.

Select the use level through formulation development. Confirm pH compatibility, preservative effectiveness, stability and packaging compatibility for the intended finished product. No fixed use level, universal pH range or processing-temperature limit is assigned by this specification.

5. Packaging and storage

Packaging	Double inner plastic bags in a neutral fibre / cardboard drum. Net weight is specified by the order.
Storage	Store in cool and dry places and keep away from strong light and heat. Keep the container tightly closed and protect from moisture and contamination.
Shelf life	24 months in original unopened packaging when stored as recommended.
Handling	Use clean, dry utensils and reseal promptly after opening. Avoid dust generation. Refer to the SDS for workplace precautions.

6. Supplier information

Shaanxi Pinhon Biotechnology Co., Ltd. | Manufacturer & Supplier

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7. Document control and references

Issue date: 13 Oct 2026 | Version: 1.0. Quality limits apply across batches. Nominal 95% / 5% composition identifies the active and botanical matrix; actual batch conformity is assessed against the ≥95.0% assay limit in the COA.

PubChem Swertiamarin identity and molecular information. View source

Cayman Chemical Swertiamarin product information, solubility background. View source

COSMILE Europe Swertia Japonica Extract ingredient functions. View source

Korea Cosmetic Association Swertia Japonica Extract identity. View source

These references support identity and technical context. Product limits and shelf life follow the PINHONBIO specification; reference-grade solubility, storage and performance claims are not transferred as guarantees for this botanical grade.