品鸿生物科技
Pinhon Biotechnology

TECHNICAL DATA SHEET

PINHONBIO® Scutellaria Baicalensis Root Extract - Baicalin 80%

1. Product Overview

PINHONBIO® Scutellaria Baicalensis Root Extract is a cosmetic-grade, water-soluble botanical extract standardized to not less than 80.0% baicalin on the dried basis. The balance consists of the natural Scutellaria baicalensis root-extract matrix, normally about 20% at the minimum assay specification.

2. Product Identification

Trade name	PINHONBIO® Scutellaria Baicalensis Root Extract - Baicalin 80%
INCI name	SCUTELLARIA BAICALENSIS ROOT EXTRACT
Grade	Cosmetic grade
Botanical source	Scutellaria baicalensis Georgi, root
Product type	Baicalin-enriched botanical extract; water-soluble grade
Root extract CAS / EC	94279-99-9 / 304-845-9
Baicalin CAS	21967-41-9
Baicalin formula / weight	C21H18O11 / 446.36 g/mol
Appearance	Pale yellow to brownish-yellow powder
Geographical availability	Global

3. Composition Statement

Component	Typical declaration
Baicalin - marker compound	>=80.0% on the dried basis
Natural Scutellaria baicalensis root-extract matrix	Balance to 100%; normally about 20% at the minimum assay specification

Because the assay is specified as a minimum, the exact balance varies by batch. For example, a batch assaying 85.15% baicalin contains approximately 14.85% remaining extract matrix and permitted trace constituents.

4. Functions and Applications

- Cosmetic ingredient for skin-conditioning, soothing, humectant and astringent formulation concepts.
- Suitable for serums, creams, lotions, masks, cleansers, scalp-care and other personal-care formulations after compatibility testing.
- Finished-product safety, stability, preservation, efficacy and claims must be supported by testing of the actual formulation in the destination market.

5. Formulation Guidance

Solubility	Water-soluble / water-dispersible grade. Confirm clarity in the intended formulation.
Processing	Pre-dissolve in the aqueous phase under adequate mixing. Verify compatibility with the final pH, electrolyte level and preservative system.
Use level	Determine through formulation testing and destination-market safety assessment.
Color contribution	The natural yellow-brown color may affect the appearance of the finished product.

6. Technical Specification

Test	Specification	Method / basis
Baicalin assay	>=80.0%	HPLC; dried basis
Identification	Corresponds to reference	ChP 2025
Appearance	Pale yellow to brownish-yellow powder	Visual
Odor	Characteristic	Organoleptic
Loss on drying	<=5.0%	ChP 2025
Total ash	<=3.0%	ChP 2025
Ethanol residue	<=2,000 ppm	In-house / applicable method
Arsenic	<=2.0 mg/kg	Applicable compendial method
Lead	<=2.0 mg/kg	Applicable compendial method
Mercury	<=1.0 mg/kg	Applicable compendial method
Cadmium	<=1.0 mg/kg	Applicable compendial method
Total plate count	<=1,000 CFU/g	ChP 2025
Yeasts and molds	<=100 CFU/g	ChP 2025
Diarrheogenic Escherichia coli	Negative/g	ChP 2025
Salmonella	Negative/g	ChP 2025

7. Packaging Storage and Shelf Life

Packaging	Double-layer plastic bag in a neutral fiber/cardboard drum, or an agreed equivalent.
Storage	Keep tightly closed in a cool, dry and shaded place. Protect from direct sunlight, heat and moisture.
After opening	Reseal promptly and minimize exposure to air, humidity and contamination.
Shelf life	24 months in unopened original packaging when stored as recommended.

8. Quality and Use Statement

A batch-specific Certificate of Analysis should be used for release and incoming inspection. This TDS provides raw-material information and does not replace finished-product safety, stability, efficacy or regulatory assessment.

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Information basis: Supplied product COA; European Commission CosIng information for Scutellaria Baicalensis Root Extract; CIR safety assessment of Scutellaria baicalensis-derived cosmetic ingredients; PubChem and ECHA-linked baicalin identity and classification records.