品鸿生物科技
Pinhon Biotechnology

TECHNICAL DATA SHEET

PINHONBIO® Centella Asiatica Extract - Total Triterpenes 80%

1. Product Overview

PINHONBIO® Centella Asiatica Extract is a cosmetic-grade, water-soluble botanical extract obtained from dried whole Centella asiatica plants using ethanol and water. It is standardized to not less than 80.0% total triterpene glycosides by HPLC.

Assay definition: In this product specification, total triterpene glycosides means the combined HPLC content of asiaticoside, madecassoside and asiaticoside B. The remaining portion consists of the natural Centella asiatica extract matrix and permitted trace constituents.

2. Product Identification

Trade name	PINHONBIO® Centella Asiatica Extract - Total Triterpenes 80%
INCI name	CENTELLA ASIATICA EXTRACT
Grade	Cosmetic grade
Botanical source	Centella asiatica (L.) Urb.; dried whole plant
Extraction solvent	Ethanol and water
Extract CAS / EC	84696-21-9 / 283-640-5
Appearance	Off-white powder
Solubility	Good solubility in water; confirm clarity in the intended formulation
Geographical availability	Global

3. Composition Statement

Component	CAS No.	Declaration
Asiaticoside	16830-15-2	Part of combined >=80.0%
Madecassoside	34540-22-2	Part of combined >=80.0%
Asiaticoside B	125265-68-1	Part of combined >=80.0%
Other natural Centella asiatica extract constituents	Mixture	Balance to 100%; <=20.0% at the minimum assay specification

Individual ratios of the three marker glycosides are batch-dependent and are not separately specified. A batch-specific COA should be used for release decisions.

4. Cosmetic Functions and Applications

- INCI functions include cleansing, skin conditioning, smoothing, soothing and tonic use.
- Suitable for serums, creams, lotions, masks, cleansers, scalp-care and hair-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

Addition	Pre-dissolve in the aqueous phase with adequate mixing.
Compatibility	Verify compatibility with the final pH, electrolyte level, surfactants and preservative system.

Use level	Determine through formulation testing and destination-market safety assessment.
Color	The natural off-white color may vary slightly between botanical batches.

6. Technical Specification

Test	Specification	Method / basis
Total triterpene glycosides	>=80.0%	HPLC; sum of the three named glycosides
Appearance	Off-white powder	Visual
Odor	Characteristic	Organoleptic
Taste	Characteristic	Organoleptic
Identification	Positive	TLC
Solubility	Good solubility in water	Visual
Total ash	<=5.0%	GB 5009.4
Loss on drying	<=5.0%	GB 5009.3
Ethanol residue	<=2,000 ppm	ChP 2025
Mesh size	>=98% through 80 mesh	ChP 2025
Lead	<2 mg/kg	GB 5009.12
Arsenic	<1 mg/kg	GB 5009.11
Mercury	<1 mg/kg	GB 5009.17
Cadmium	<1 mg/kg	GB 5009.15
Total plate count	<=1,000 CFU/g	GB 4789.2
Yeasts and molds	<=100 CFU/g	GB 4789.15
Coliforms	Negative	GB 4789.3
Salmonella	Negative	GB 4789.4
Staphylococcus aureus	Negative	GB 4789.10

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: Supplier COA; COSMILE Europe; US EPA CompTox; PubChem.