品鸿生物科技
Pinhon Biotechnology

TECHNICAL DATA SHEET

PINHONBIO® Madecassoside 95%

1. Product Overview

PINHONBIO® Madecassoside 95% is a plant-derived cosmetic raw material obtained from Centella asiatica (L.) Urban. The supplied powder contains not less than 95% madecassoside by HPLC and is intended for professional cosmetic formulation.

2. Product Identification

Product name	PINHONBIO® Madecassoside 95%
Active ingredient / INCI	Madecassoside / MADECASSOSIDE
Botanical INCI reference	CENTELLA ASIATICA EXTRACT
Botanical source	Centella asiatica (L.) Urban
Plant part used	Entire plants (dried, 100% natural)
CAS / EC (madecassoside)	34540-22-2 / 252-076-1
Molecular formula / weight	C48H78O20 / 975.1 g/mol
Extraction solvent	Ethanol / water
Grade	Cosmetic grade
Appearance	Off-white to white powder

3. Function and Applications

- Applications: soothing, anti-inflammatory care, anti-aging, acne-prone skin care and skin repair; also of interest in wound-healing research.
- Suitable for evaluation in serums, creams, lotions and other skin-care formulations. Finished-product efficacy and any therapeutic claims require appropriate evidence and assessment.
- Recommended use level: 0.2%–2%. Levels above 2% may be considered after formulation compatibility, stability and finished-product safety evaluation.

4. Formulation and Solubility Notes

Solubility: Freely soluble in ethanol, propylene glycol, butanediol and water. Pre-dissolve the powder, then add the dissolved mixture before emulsification. Confirm dissolution at the intended concentration and compatibility with the complete formula; processing temperature and pH range have not been specified.

5. Technical Specification

Test	Specification	Method
Madecassoside content	≥95%(Contains Madecassoside and Asiaticoside B)	HPLC
Appearance and color	Off-white to white powder	Visual
Odor	Characteristic	Organoleptic
Taste	Characteristic	Olfactory
Identification	Positive	TLC
Solubility	Good solubility in water	Visual
Ash content	<3%	GB 5009.4
Loss on drying	<5%	GB 5009.3
Solvent residue	2000 ppm	CP 2020
Particle size	≥98% passing 80 mesh	CP 2020
Lead (Pb)	<2 ppm	GB 5009.12
Arsenic (As)	<1 ppm	GB 5009.11
Mercury (Hg)	<0.5 ppm	GB 5009.17
Cadmium (Cd)	<1 ppm	GB 5009.15
Total plate count	≤1,000 CFU/g	GB/T 4789.2-2003
Yeasts and molds	≤100 CFU/g	GB/T 4789.15-2003
Coliforms	Negative	GB/T 4789.3-2003
Salmonella	Negative	GB/T 4789.4-2003
Staphylococcus aureus	Negative	GB/T 4789.10-2003

6. Analytical and Ingredient Declaration Notes

Madecassoside content is tested by HPLC; refer to the batch COA for the actual result. Detailed chromatographic conditions are not specified here. MADECASSOSIDE identifies the active ingredient; CENTELLA ASIATICA EXTRACT is the supplied botanical INCI reference. Confirm the ingredient declaration against the complete supplied composition. The source COA states solvent residue as 2000 ppm without a limit sign.

7. Packaging, Storage and Shelf Life

Packaging	Double plastic bags inside a neutral cardboard drum.
Storage	Store in a cool, dry place protected from light; keep the container closed.
After opening	Reseal promptly and protect from moisture and contamination.
Shelf life	24 months when properly stored. Refer to the batch COA for dates.

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.