品鸿生物科技
Pinhon Biotechnology

TECHNICAL DATA SHEET

PINHONBIO® Bakuchiol 99%

1. Product Overview

PINHONBIO® Bakuchiol 99% is a high-purity, oil-soluble cosmetic active supplied as an oily liquid. The supplied batch certificate uses acceptance limits of not less than 98.0% for both HPLC purity and assay. It is intended for professional cosmetic formulation.

2. Product Identification

Product name	PINHONBIO® Bakuchiol 99%
INCI	BAKUCHIOL
Chemical name	4-[(1E,3S)-3-ethenyl-3,7-dimethylocta-1,6-dienyl]phenol
CAS / EC	10309-37-2 / 685-515-4
Molecular formula	C18H24O
Molecular weight	256.38 g/mol
Appearance	Light-red oily liquid
Origin	Natural-origin botanical active
Geographical availability	Global

3. Functions and Applications

- Skin-conditioning and antioxidant active for cosmetic formulation.
- Suitable for facial care, serums, creams, lotions, balms, oils, masks, lip care, sun-care and color cosmetics.
- Finished-product claims, safety, compatibility and stability must be supported by testing of the actual formulation in the destination market.

4. Formulation Guidance

Suggested use level	0.5-1.0% of the finished formulation; validate the intended use and local regulatory limits.
Solubility	Oil-soluble and insoluble in water; miscible with a wide range of hydrophobic emollients and vegetable oils.
Processing	Add directly to the oil phase. Avoid prolonged heating above 75°C.
Finished-product pH	Use in an acidic formulation, preferably below pH 6.5.
Compatibility	Avoid sodium hydroxide, potassium hydroxide and aluminum hydroxide. Metal ions may cause color changes.
Stability support	Opaque or airless packaging and a suitable chelating agent may help minimize color change. Confirm in the final formula.

5. Technical Specification

Test	Specification	Method
Purity	>=98.0%	HPLC
Assay	>=98.0%	HPLC
Identification	Positive reaction; spot corresponds to the reference standard	TLC
Appearance	Light-red oily liquid	Visual
Odor	Characteristic	Olfactory
Moisture	<=5.0%	In-house method
Arsenic	<=1.0 mg/kg	In-house method
Lead	<=2.0 mg/kg	In-house method
Mercury	<=1.0 mg/kg	In-house method
Cadmium	<=1.0 mg/kg	In-house method
Total plate count	<=1,000 CFU/g	In-house method
Yeasts and molds	<=100 CFU/g	In-house method
Escherichia coli	Negative per g	In-house method
Salmonella	Negative per g	In-house method

6. Packaging Storage and Shelf Life

Packaging	1 kg aluminum bottle inside a neutral fiber drum, or agreed equivalent.
Storage	Keep tightly closed in a cool, dry place. Protect from direct sunlight, heat, air and moisture.
After opening	Reseal promptly and minimize exposure to air and light.
Shelf life	24 months in unopened original packaging when stored as recommended.

Information sources: supplied Bakuchiol batch certificate; PubChem and ECHA identity and classification data; published high-purity Bakuchiol supplier formulation guidance. Supplier specifications govern the delivered material.