

TECHNICAL DATA SHEET

Product Name: Bamboo Powder 10:1

INCI Name: Bambusa Vulgaris Extract

CAS: 91771-33-4

Synonyms: Arundarbor vulgaris (Kuntze) Kuntze, Bambos vulgaris (Schrad.) W.Wight, Bambusa arundinacea var. striata (Lodd. ex Lindl.) Gamble, Bambusa striata Lodd. ex Lindl., Leleba vulgaris (Schrad.) Nakai

Product Quality: The product is concentrated at a 10:1 ratio, meaning that the amount of plant material used to obtain the extract is 10 times greater than the final extract volume. This ratio is used to emphasize the extract's strength and efficacy.

Origin of Raw Material: China

Description: Bambusa vulgaris is a tropical bamboo species characterized by rapid growth. It forms dense thickets of tall stems, which can grow up to 20 meters in height. The stems are light yellow to golden-green in color, with characteristic nodes and can have a diameter between 10 and 15 centimeters. The leaves are elongated, intensely green, and contribute to the dense canopy that elegantly sways in the wind. Flowering is a rare occurrence that cannot be easily predicted, adding an element of mystery to this fascinating plant. Some of the key phytochemicals contained in Bambusa vulgaris are: silica (Silicon dioxide), flavonoids (Catechin, Quercetin, Kaempferol, Isoorientin, Isoschaftoside, Orientin, and Tricin), phenolic acids (Gallic, Caffeic, and Ferulic acid), Lignin, steroids and triterpenoids, amino acids and proteins (Lysine, Methionine, Phenyl-alanine, Threonine, Tryptophan, Valine, Leucine, and Isoleucine, and of non-essential amino acids: Alanine, Aspartic acid, Glutamic acid, Glycine, Proline, Serine, and Tyrosine). Minerals present include potassium, calcium, and magnesium. The color of the extract varies from light yellow to dark brown, depending on the concentration and type of phytochemicals extracted. The extract is soluble in water or organic solvents such as ethanol, methanol, and acetone, depending on the type of phytochemicals extracted. The whole plant is used for extraction and obtaining plant powder.

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Benefits:

- **Excellent absorbent:** Bamboo powder is extremely effective at absorbing excess oil from the skin thanks to its high content of silica, which naturally attracts and retains fatty substances. When applied to the skin, it gently absorbs sebum and oil without causing irritation or dryness. Thanks to its ability to provide a matte effect, bamboo powder has become a valued addition in cosmetic products such as various types of powders and face masks.

- **Mild exfoliant:** Thanks to its fine texture, bamboo powder can act as a mild exfoliant, gently removing dead skin cells, leaving the skin smooth and renewed. Regular use of products containing bamboo powder can help reduce the visibility of pores.

- **Anti-inflammatory action:** Bioactive ingredients in bamboo can inhibit enzymes and cytokines involved in inflammatory processes in the skin. For example, they can prevent the production of prostaglandins and leukotrienes, which are chemical mediators responsible for inflammatory reactions. Phenolic compounds and flavonoids present in bamboo have strong antioxidant properties that help neutralize free radicals and reduce oxidative stress, often associated with skin inflammation conditions.

- **Skin regeneration:** Bamboo ingredients can stimulate the renewal of skin cells, which is important in the healing process and reducing skin inflammation reactions. Silica can help strengthen the skin's barrier function, reducing its sensitivity to irritants and potential inflammatory agents from the environment.

- **Natural and eco-friendly ingredient:** As a natural and renewable resource, bamboo powder is an eco-friendly option in cosmetics and attracts users looking for sustainable and ecological products.

Usage: Used for making water-glycerin extracts, glycerites, tinctures, and other cosmetic semi-products. Recommended concentrations range from 5-10%.

Storage and Shelf Life: Stable when stored in a dry and cool place, protected from light. Shelf life of 2 years.

Animal Testing: The substance has not been tested on animals.

GMO: Not GMO.

Vegan: Does not contain components of animal origin.

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