

TECHNICAL DATA SHEET

Product name: Cucumber Fruit Powder 10:1

INCI name: Cucumis Sativus Fruit Extract

CAS: 89998-01-6

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

Origin of raw material: China

Description: The cucumber (*Cucumis sativus*) is an annual plant from the gourd family (Cucurbitaceae), characterized by rapid growth and the ability to climb with the help of tendrils. This plant develops large, broad leaves under which fruits develop. Cucumber flowers are usually yellow and can be male or female, with both types of flowers often found on the same plant. Pollination is most commonly done by insects, especially bees. Cucumber fruits vary in size, shape, and color, depending on the variety, but are most commonly elongated, green, with slightly bumpy surfaces. The inside of the fruit is juicy and refreshing, with a slightly bitter taste. Seeds are located in the central, softer part of the fruit and are usually surrounded by a gelatinous substance. Key phytochemicals present in cucumber fruit include: cucurbitacins, flavonoids (quercetin, apigenin, luteolin, and kaempferol), triterpenes (compounds with anti-inflammatory and antioxidant effects), lignans (pinosresinol, lariciresinol, and secoisolariciresinol), phenolic acids (caffeic acid, p-coumaric acid, and ferulic acid, which have antioxidant properties and can help protect cells from oxidative stress). It contains vitamins and minerals such as vitamin K, C, and potassium. It also contains flavonols (fisetin). The high water content in cucumber, along with phytochemicals, makes it not only refreshing and hydrating but also beneficial for overall health, potentially offering anti-inflammatory and antioxidant benefits. The powder is light yellow in color, with a mild cucumber scent, soluble in water.

Benefits:

- **Anti-inflammatory properties:** *Cucumis sativus* contains antioxidants and

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anti-inflammatory compounds, such as flavonoids and tannins, which can help reduce inflammatory processes on the skin.

- **Skin toning and astringent effects:** Cucumber acts as a mild astringent, helping tighten pores, which can be beneficial for oily skin and acne-prone skin. It also helps improve skin tone and texture.

- **Detoxification and cleansing:** Cucumber can help remove toxins from the skin by purifying pores, leading to improved skin health and reduced appearance of acne.

- **Minerals:** The presence of minerals such as silicon (silica) contributes to strengthening the skin's connective tissue, thereby improving skin elasticity and reducing the appearance of wrinkles.

- **Anti-aging properties:** Vitamin C is a powerful antioxidant that helps combat free radicals. Vitamin C also stimulates collagen production, the protein responsible for skin elasticity and firmness.

- **Reduction of dark circles and puffiness:** Cucumber reduces dark circles and puffiness around the eyes due to its high water content, which hydrates and refreshes the skin, as well as cooling effects. Antioxidants and vitamin K strengthen blood vessels and reduce the visibility of dark circles.

- **Hydration:** Cucumber has a high water content, making it naturally hydrating and soothing, ideal for moisturizing dry and irritated skin. It helps maintain the skin barrier function, making it soft and elastic.

- **Soothing cooling effect:** Thanks to its cooling effect, it helps soothe irritated skin, reduce swelling, and provide relief from sunburn.

Usage: Used for making water-glycerin extracts, glycerites, tinctures, and other cosmetic semi-finished products. Recommended concentrations range from 1-10%.

Animal testing: The substance has not been tested on animals

GMO: Not GMO

Vegan: Does not contain components of animal origin

Storage and shelf life: The extract is stable when stored in a dry and cool place, protected from light. Shelf life of 2 years.

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