

TECHNICAL DATA SHEET

Product Name: Cucumber Infused Oil

INCI Name: Cucumis Sativus (Cucumber) Fruit Extract, Helianthus Annuus Seed Oil, Prunus Amygdalus Dulcis Oil, Tocopherol

CAS: 89998-01-6, 8001-21-6, 8007-69-0, 59-02-9

Synonyms: Cucumis sativus L., Cucumber macerate, Oil with cucumber extract, Cucumber herbal oil extract, Cucumber oil infusion

Chemical Classification: Mixture

Functional Category: Skin care agent ~ Occlusive, Skin conditioning agent ~ Emollient, Antioxidant

Description: Cucumber infused oil is obtained by macerating dried plant material—Cucumis Sativus fruit extract—into a suitable vegetable oil using the so-called “stove-top” method. Through the maceration process, medicinal compounds gradually transfer from the plant material into the oil, merging the beneficial properties of the base oil and cucumber extract. The carrier oil used is cold-pressed linoleic-type sunflower oil, rich in essential linoleic acid and with a smaller amount of oleic acid, combined with sweet almond oil. The oil is yellow-green in color, slightly cloudy, and has a mild herbal scent. Its texture is light and suitable for oily and combination skin as it does not clog pores. It leaves the skin feeling soft and smooth, acting as a natural emollient that helps retain moisture and supports skin elasticity. This oil is especially valued for its soothing effect, making it an excellent choice for formulations targeting sensitive and reactive skin. Cucumber infused oil contains natural antioxidants that help protect the skin from oxidative stress and premature aging. For these reasons, it is often included in post-sun care products, as well as in formulations for daily hydration and the care of irritation-prone skin. This raw material blends well with other plant oils and butters, as well as with essential oils and active ingredients in serum or cream-based forms.

Bioactive Compounds: Cucumber infused oil contains numerous bioactive components that collectively contribute to skin hydration, protection, and renewal. Notable among them are phytosterols—primarily beta-sitosterol, campesterol, and stigmasterol—which reinforce the skin's lipid barrier, increase its resilience and elasticity, and exhibit mild

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anti-inflammatory activity. Triterpenoids, present in smaller amounts, help soothe irritation and support skin regeneration. Polysaccharides, particularly glucans and galactomannans, form an invisible protective layer on the skin's surface, preventing transepidermal water loss and maintaining long-lasting hydration. Flavonoids—mainly quercetin and isorhamnetin—act as powerful antioxidants and protect cells from damage caused by free radicals. Additionally, this oil contains natural ascorbic acid (vitamin C), which participates in collagen synthesis, improves skin firmness, and evens the complexion. Small amounts of vitamin A are present in the form of retinoid compounds, which mildly stimulate epidermal renewal and support the skin's natural exfoliation process. The presence of mineral elements such as potassium and magnesium further strengthens the skin, contributing to its soothing and increased resistance to external factors. The oil is also rich in essential fatty acids—linoleic, alpha-linolenic, and oleic acids—that nourish the skin, restore the hydrolipidic layer, and improve suppleness and healthy appearance. Tocopherol (natural vitamin E) ensures the oil's stability and antioxidant protection, shielding it from rancidity and supporting youthful skin appearance by slowing down aging processes. All of these active constituents, united in cucumber infused oil, act in harmony to deliver intensive care, protection, and long-lasting regenerative effects.

Benefits:

- Restores and strengthens the skin's protective barrier
- Increases skin elasticity and firmness
- Soothes irritation and reduces redness
- Prevents moisture loss and maintains hydration
- Protects the skin from free radicals and oxidative stress
- Stimulates collagen synthesis and supports skin renewal
- Strengthens the skin's resilience against external factors
- Nourishes the skin and restores softness and suppleness
- Does not clog pores and is suitable for oily and combination skin
- Has anti-inflammatory properties and reduces discomfort in sensitive skin
- Suitable for daily use and easily blends with other ingredients

Usage: Cucumber infused oil is used as a functional ingredient in a wide range of cosmetic formulations, with dosage adjusted according to product type and desired effect. In light moisturizing creams and oil-based serums, recommended concentrations

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range from 1 to 5%, providing a mild emollient effect and support for irritation-prone skin. In formulations for dry and sensitive skin—such as balms, masks, and rich creams—concentrations may be higher, between 5 and 10%, to ensure more intensive care and protection. In body care products and massage oils, cucumber infused oil may comprise up to 10% of the formulation, enhancing skin softness and elasticity while providing a soothing effect. Combined with other plant oils and butters, it serves as a functional addition enriched with bioactive components. In post-sun care or protective formulations, it is used in lower concentrations, from 2 to 4%, to soothe the skin and maintain balance. The oil is stable and does not require special addition conditions—it can be incorporated during the non-heated phase or through gentle mixing at room temperature, and it fits well into both natural and more advanced cosmetic compositions.

Botanical or Synthetic Ingredient: Cucumber infused oil is a 100% natural ingredient. All of its components—plant extract, cold-pressed oils, and natural tocopherol—confirm its completely natural origin.

Animal Testing: This substance has not been tested on animals

GMO: Non-GMO

Vegan: Contains no animal-derived components