

TECHNICAL DATA SHEET

Product name: Artichoke Leaf Extract Powder 10:1

INCI name: Cynara Scolymus Leaf Extract

CAS: 84012-14-6

Synonyms: Globe Artichoke, French Artichoke, Green Artichoke

Origin of raw material: China

Description: Artichoke (*Cynara scolymus*) is a perennial plant from the thistle family, originating from the Mediterranean region. It is characterized by large, silver-green leaves forming a rosette, with the plant reaching up to 2 meters in height. Artichokes bear large, round floral heads, known as globes, surrounded by thick, green bracts with a soft, fleshy base – the part most commonly consumed. If not harvested, these floral heads bloom into large, purple flowers. The plant thrives best in mild, humid climates and requires well-drained, fertile soil for growth. Some of the main phytochemicals present in artichoke include: Cynarin, Quercetin, Luteolin, Gallic acid, Saponins, and Inulin. The artichoke leaf extract is concentrated at a 10:1 ratio, meaning the amount of plant material used to obtain the extract is ten times greater than the final quantity of the extract. This ratio is used to emphasize the strength and efficiency of the extract. The powder is soluble in water, glycerin, and glycols.

Benefits:

- **Antioxidant protection:** The high level of antioxidants in artichoke leaf powder, such as quercetin, luteolin, and cynarin, helps protect the skin from oxidative stress caused by environmental pollutants and UV radiation. This can reduce signs of aging, such as wrinkles and fine lines.
- **Skin hydration:** Artichoke contains compounds that can help improve skin hydration by enhancing the skin's barrier function. This prevents moisture loss and keeps the skin plump and hydrated.
- **Skin texture improvement:** Nutrients in artichoke leaf powder can help improve skin texture, making it smooth and elastic. Phytochemicals present in artichoke can stimulate the activity of fibroblasts, the cells in the dermis responsible for collagen production, encouraging them to produce more collagen. This directly contributes to

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improved firmness and elasticity of the skin. Artichoke leaf extract can also act by inhibiting the activity of certain enzymes, such as matrix metalloproteinases (MMPs), which break down collagen and other protein components of the extracellular matrix. By reducing the activity of these enzymes, artichoke leaf extract helps preserve existing collagen, contributing to better skin structure and appearance.

- **Reducing inflammation:** Inflammation can negatively affect collagen production and lead to the degradation of collagen fibers. Thanks to its anti-inflammatory properties, artichoke leaf extract can reduce inflammation in the skin, indirectly supporting the synthesis and preservation of collagen. The anti-inflammatory properties of artichoke leaf can also help reduce skin redness and irritation, making it useful in products intended for sensitive skin or skin conditions like eczema and rosacea.

- **Detoxifying properties:** Artichoke is known for its detoxifying effects on the liver, and these benefits extend to the skin. It can help purify the skin, reduce the appearance of pores, and improve overall skin health.

- **Brightening and evening skin tone:** Components in artichoke leaf powder can inhibit the enzyme tyrosinase, involved in melanin production. This can help reduce hyperpigmentation and even out skin tone, making the skin brighter and more radiant.

- **Acne and sebum control:** Thanks to its ability to help regulate sebum production and its antibacterial properties, artichoke leaf powder can be an effective ingredient in products aimed at treating acne-prone skin.

Storage/shelf life: Stable when stored in a dry and cool place. Shelf life of 2 years.

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

GMO: Non-GMO

Vegan: Does not contain animal-derived components.