

TECHNICAL DATA SHEET

Product Name: Carrot Root Powder 10:1

INCI Name: Daucus Carota Sativa Root Extract

CAS: 84929-61-3

Botanical Name: Daucus Carota Sativa

Synonyms: Carrot, Karota, Wild carrot, Queen Anne's lace, Garden carrot, Cultivated carrot, Bird's nest, Bishop's lace, Bee's nest plant

Product Quality: The product is concentrated at a ratio of 10:1, 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 effectiveness of the extract.

Source of Raw Material: China

Description: *Daucus carota* subsp. *sativus* is a subspecies of the plant *Daucus carota*, known as wild carrot. It belongs to the family *Apiaceae*. It is characterized by a long, conical root that can be orange, purple, yellow, or white, depending on the variety. The leaves are finely divided and located on a stem that can grow up to about 1 meter in height. The flowers are white or light pink and form umbel-like clusters at the top of the stem. The fruits are tiny seeds contained in dry, hairy fruits resembling feathers. This subspecies is rich in beta-carotene and other nutrients and is often used in culinary applications. Besides beta-carotene, carrot contains other carotenoids: alpha-carotene, lutein, and zeaxanthin. Beta-carotene is particularly important because it converts into vitamin A in the body. Flavonoids, including flavonols, flavanols, and anthocyanins, have antioxidant properties. Carrot contains various polyphenols, including coumarins and phenolic acids, which also have antioxidant properties and contribute to skin protection against oxidative stress. Phytoestrogens have a similar structure to estrogens and can exhibit mild estrogen-mimetic effects. Carrot also contains phytosterols, compounds with various biological activities.

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Benefits:

- **Antioxidant Protection:** Free radicals are molecules that can damage skin cells, leading to premature aging, wrinkles, and other skin issues. Antioxidants present in carrot extract, such as beta-carotene, neutralize these free radicals, preserving skin health and contributing to a youthful appearance. These antioxidants can also help protect the skin from harmful UV radiation, maintain hydration, and promote cell regeneration.

- **Hydration and Skin Renewal:** Carrot root contains nutrients that can hydrate the skin and provide essential vitamins and minerals. This can help renew dry and sensitive skin, making it soft and smooth.

- **Improvement of Complexion:** Regular use of carrot root extract can help improve skin complexion, making it brighter, more radiant, and even-toned.

- **Soothing Irritation and Redness:** Carrot root extract has anti-inflammatory properties that can help soothe irritated or inflamed skin and reduce redness and irritation.

- **Skin Regeneration:** Active ingredients in carrot root extract can stimulate the skin's regeneration process, aiding in the repair of damaged cells and tissues and promoting a healthier skin appearance.

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: Non-GMO

Vegan: Does not contain animal-derived components

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