Avena Lab
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TECHNICAL DATA SHEET

Carrot Root Extract & Hyaluronate Gel

Product Name: Hyaluronate Gel with Carrot Root Extract

INCI Name: Aqua, Glycerin, Daucus Carota Sativa Root Extract, Sodium Hyaluronate, Benzyl Alcohol, Dehydroacetic Acid

CAS Numbers: 7732-18-5, 56-81-5, 84929-61-3, 9067-32-7, 100-51-6, 520-45-6

Chemical Classification: Mixture

Functional Category: Humectant, Soothing Agent, Skin Conditioning Agent

Description: Carrot Root Extract & Hyaluronate Gel is a combination of water-glycerin carrot root extract (Daucus Carota Sativa) and Sodium Hyaluronate in gel form.

Sodium Hyaluronate acts as a humectant by binding water and maintaining hydration levels within the superficial layers of the skin. It forms a lightweight film on the skin surface that reduces moisture loss and contributes to improved elasticity. As a result, the skin becomes softer and more even in appearance.

Carrot root extract contains natural antioxidants, including carotenoids and phenolic compounds. These components help protect the skin from oxidative stress and environmental aggressors while supporting skin regeneration and maintaining a healthy-looking complexion. The extract may also contribute to improving skin tone and complexion uniformity.

The combination of these components provides a balanced moisturizing and protective effect. The gel has a lightweight texture and absorbs quickly without leaving a heavy or greasy residue on the skin. It is suitable for various skin types, including sensitive areas such as the eye contour region.

The formulation is stabilized with a preservative system based on benzyl alcohol and dehydroacetic acid, ensuring microbiological stability. The gel is water-soluble and can be easily incorporated into different cosmetic formulations.

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Benefits:
• Hydrates the skin by binding water and maintaining an optimal moisture level.

• Reduces moisture loss by forming a protective film on the skin surface.

• Protects the skin from oxidative stress due to the presence of antioxidants.

• Supports skin regeneration and contributes to faster recovery of damaged skin.

• Improves skin elasticity and promotes a more even complexion.

Recommended Use: Added during the cooling phase of formulations at temperatures below 40 °C in order to preserve the stability of Sodium Hyaluronate and the botanical components. It may be directly incorporated into the water phase or into a finished emulsion with gentle mixing until complete homogenization is achieved.

In hydrating and revitalizing serums and gels, it is used at concentrations of 1–5%.

In creams and lotions for daily care, recommended concentrations range from 0.5–3%.

In face masks, especially those intended for intensive hydration, it is used at concentrations of 2–10%.

In products intended for sensitive areas such as the eye contour region, recommended concentrations are 0.5–2%.

In facial toners and mists, it is used at lower concentrations ranging from 0.1–1%.

The gel is compatible with most water-soluble raw materials, including humectants, botanical extracts, and mild active ingredients. The optimal formulation pH range is approximately 4.5–6.5.

For external use only.

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Animal Testing: In accordance with current European regulations (Regulation (EC) No. 1223/2009 on cosmetic products), this substance has not been tested on animals. The safety assessment of the raw material is based on available toxicological data, scientific literature, and validated alternative testing methods (in vitro and in silico).

“In silico” refers to testing and assessment methods performed using computer models and simulations rather than on living organisms (in vivo) or cell cultures (in vitro).

This statement confirms compliance with the ban on animal testing and is provided solely for informational purposes regarding the further use of the raw material in cosmetic formulations.

GMO Status: GMO-free

Vegan Status: Does not contain components of animal origin