Avena Lab
Farmadria d.o.o. Since 1991.

Import and distribution for Serbia: Farmadria DOO
info@avenalab.com
+381 (0) 69 / 55 65 029
www.avenalab.com

TECHNICAL DATA SHEET

Arnica Extract & Hyaluronate Gel

Product Name: Hyaluronate Gel with Arnica Extract

INCI Name: Aqua, Glycerin, Sodium Hyaluronate, Arnica Montana Flower Extract, Benzyl Alcohol, Dehydroacetic Acid

CAS Numbers: 7732-18-5, 56-81-5, 9067-32-7, 68990-11-4, 520-45-6, 100-51-6

Chemical Classification: Mixture

Functional Category: Humectant, Soothing Agent, Skin Conditioning Agent

Description: Arnica Extract & Hyaluronate Gel is a high-quality cosmetic ingredient combining two active agents that contribute to skin hydration, protection, and revitalization.

Arnica extract helps reduce inflammation and supports skin regeneration processes. Flavonoids present in the extract protect the skin against oxidative stress and free radicals, while sesquiterpene lactones exhibit anti-inflammatory activity. The extract is effective in reducing bruising, swelling, and redness that may occur as a result of injuries, acne, or dermatological procedures. It also stimulates microcirculation, contributing to faster recovery of damaged tissues and reducing sensations of heaviness and muscle fatigue.

The hyaluronate gel contains Sodium Hyaluronate, a form of hyaluronic acid. This polysaccharide has the ability to bind large amounts of water and can retain up to 1000 times its own weight in moisture, making it one of the most effective moisturizing agents used in cosmetics. Hyaluronate contributes to the formation of a protective barrier on the skin, reducing moisture loss and protecting against external factors including pollution and UV radiation. Regular use improves skin texture, making the skin softer, more elastic, and visually more even-toned. It also helps reduce the appearance of fine lines and wrinkles, making it a common ingredient in anti-aging formulations.

The gel is preserved with the natural preservative Benzyl Alcohol DHA. Benzyl Alcohol DHA is eco-certified and classified as an environmentally friendly material according

to EU regulations and is also accepted by Whole Foods standards. The gel is water-soluble.

Benefits of the Mixture:
• Reduces skin swelling and redness.

• Exhibits strong anti-inflammatory properties.

• Promotes faster healing of bruises and minor skin damage.

• Improves circulation and skin nourishment.

• Helps reduce irritation and inflammation.

• Intensively hydrates and retains moisture within the skin.

• Maintains skin softness, smoothness, and elasticity.

• Suitable for use on sensitive skin and after sun exposure.

Recommended Use: Arnica Extract & Hyaluronate Gel is widely used in cosmetic products including serums, creams, lotions, masks, and toners. Application levels depend on the type of formulation being developed. The gel is added during the cooling phase of formulations in order to preserve the stability and efficacy of the active ingredients.

In soothing serums and gels, it is typically used at concentrations of 1–5%. It provides immediate hydration, reduces redness and inflammation, and its lightweight texture makes it suitable for all skin types.

In daily care creams and lotions, lower concentrations are recommended, generally ranging from 0.5–3%.

In face masks, especially those intended for intensive hydration, it is used at concentrations of 2–10%. In leave-on masks, it provides prolonged activity, enhancing the soothing effect and offering additional skin protection.

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In facial toners and mists, it is used at lower concentrations of 0.1–1%. In these products, it acts as a gentle moisturizing agent, providing refreshment and a soothing sensation, particularly beneficial after cleansing or sun exposure.

The gel integrates easily into different cosmetic formulations and is compatible with a broad range of ingredients, making it a versatile and functional formulation additive.

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