

## TECHNICAL DATA SHEET

### Algae Extract & Hyaluronate Gel

**Product Name:** Hyaluronate Gel with Algae Extract

**INCI Name:** Aqua, Glycerin, Laminaria Saccharina (Algae) Extract, Sodium Hyaluronate, Benzyl Alcohol, Dehydroacetic Acid

**CAS Numbers:** 7732-18-5, 56-81-5, 90046-14-3, 9067-32-7, 100-51-6, 520-45-6

**Chemical Classification:** Mixture

**Functional Category:** Skin Conditioning Agent

**Description:** Algae Extract & Hyaluronate Gel is a multifunctional cosmetic gel formulated with a combination of Laminaria Saccharina (Algae) Extract and Sodium Hyaluronate, a natural polysaccharide essential for maintaining skin moisture. It is intended for intensive hydration, antioxidant protection, and improvement of skin elasticity without creating an occlusive feel.

Sodium Hyaluronate, the biofermented form of hyaluronic acid, is biotechnologically produced from glucose, soy peptone, and yeast extract. Due to its exceptional ability to bind and retain up to 500 times its own weight in water, it acts as a powerful humectant that deeply hydrates the skin, replenishes dehydrated layers, and contributes to a smoother, fuller, and more elastic appearance. Regular use helps reduce the appearance of fine lines while strengthening the natural epidermal barrier function.

Laminaria Saccharina extract is rich in minerals, trace elements, and vitamins A, E, and B complex vitamins, which act synergistically as antioxidants. These components help strengthen the skin's natural protective function and reduce the negative effects of oxidative stress caused by UV radiation and urban pollution. The algae used in this formulation are sourced from controlled organic origins and are not treated with pesticides, while the extraction process is performed without heating in order to preserve the bioactivity of the active compounds.

The gel is transparent to slightly yellowish in color, with a pleasant lightweight texture that spreads easily and absorbs quickly. It is stabilized with mild preservatives,

## TECHNICAL DATA SHEET

Benzyl Alcohol DHA (benzyl alcohol 87%, dehydroacetic acid 8%, water 5%). This preservative system is eco-certified according to EU regulations and accepted by Whole Foods.

The product does not contain GMO raw materials, is not tested on animals, and is fully suitable for vegans. Owing to its high biocompatibility and gentle formulation, the gel is suitable for daily use, including sensitive areas such as the eye contour region. It can be incorporated into a wide range of cosmetic formulations including hydrating serums, creams, lotions, cleansers, after-sun products, and protective creams, where it provides refreshing, soothing, and revitalizing effects.

### **Benefits:**

- Algae extract hydrates the skin by retaining moisture through polysaccharides and amino acids.
- Hyaluronic acid attracts and retains moisture, giving the skin a fuller and more hydrated appearance.
- Algae extract supplies the skin with vitamins, minerals, and antioxidants for a healthy and radiant complexion.
- Antioxidants from algae help reduce oxidative stress and the appearance of fine lines.
- Hyaluronic acid contributes to wrinkle reduction through intensive skin hydration.
- Algae extract helps soothe redness and inflammation due to its anti-inflammatory properties.
- Hyaluronic acid calms irritation and reduces skin redness.
- Algae extract supports collagen production and improves skin elasticity.
- The hyaluronate gel is lightweight and suitable for all skin types, including oily skin.
- Regular use of algae extract and hyaluronic acid improves skin texture, leaving the skin smooth and soft.

## TECHNICAL DATA SHEET

**Recommended Use:** Algae Extract & Hyaluronate Gel is added during the cooling phase of formulations in order to preserve the stability and efficacy of the ingredients.

In hydrating serums and gels, it is typically used at concentrations of 1–5%. The gel acts as a humectant, providing a lightweight feel and deep hydration.

In moisturizing creams and lotions, it is used at concentrations of 0.5–3%. It complements emollients and occlusives, improves moisture retention, and helps reduce irritation.

In face masks, it is used at concentrations of 2–10%, depending on the type of mask. In leave-on masks it provides continuous hydration, while in rinse-off masks it helps reduce irritation and leaves the skin feeling refreshed.

In toners and mists, it is used at concentrations of 0.1–1%. It provides instant hydration and soothes the skin, especially after cleansing or sun exposure.

The gel is compatible with most cosmetic ingredients and can be easily incorporated into a variety of formulations.

**Natural or Synthetic Ingredient:** Algae Extract & Hyaluronate Gel contains naturally derived ingredients, as both Sodium Hyaluronate and algae extract are obtained from natural raw materials through biotechnological and mechanical processes that do not alter their chemical structure. This method of production and raw material origin confirms the natural character of the formulation in accordance with modern cosmetic standards.

**Animal Testing:** Product not tested on animals

**GMO Status:** GMO-free

**Vegan Status:** Does not contain components of animal origin