

TECHNICAL DATA SHEET

Raw Material Name: Hyaluronate Gel with Sweet Orange Peel Extract

INCI Name: Aqua, Glycerin, Sodium Hyaluronate, Citrus Aurantium Dulcis Peel Extract, Benzyl Alcohol, Dehydroacetic Acid

CAS: 7732-18-5, 56-81-5, 9067-32-7, 8028-48-6, 100-51-6, 520-45-6

Chemical Classification: Mixture; water-glycerin botanical extract with sodium hyaluronate

Functional Category: Humectant; skin-conditioning agent; antioxidant and refreshing botanical complex

Description: Sweet Orange Peel Extract & Hyaluronate Gel combines a water-glycerin extract of sweet orange peel (*Citrus aurantium dulcis*) with Sodium Hyaluronate in gel form. According to the supplied description, the product is a 2% hyaluronate gel with sweet orange peel extract. Water and glycerin provide a humectant base and support even distribution of the functional components on the skin. Sodium Hyaluronate binds water in the superficial layers of the skin and contributes to hydration, softness and smoothness. It may form a thin hydrophilic film that helps reduce transepidermal water loss and improves the feeling of elasticity and comfort. The water-glycerin sweet orange peel extract primarily contains water-soluble and polar constituents of the botanical material, including polyphenolic and flavonoid fractions, with the exact composition depending on extraction and standardization. Volatile terpenoids typical of sweet orange peel essential oil, such as limonene, should not automatically be considered dominant components of this type of extract without analytical documentation. The extract contributes to the antioxidant, refreshing and conditioning profile of the formulation. The combination of sweet orange peel extract, glycerin and Sodium Hyaluronate provides a lightweight hydrating complex suitable for serums, gels, creams, lotions, masks and other aqueous formulations. The system is preserved with Benzyl Alcohol and Dehydroacetic Acid. This preservative system is widely used in naturally oriented cosmetics and is accepted under certain natural and organic cosmetic standards; any specific eco-certification or retail-standard claim should be confirmed by supplier documentation.

Effects on the Skin: Sodium Hyaluronate acts primarily as a humectant and film-forming hydrating ingredient. By binding water, it helps improve hydration of the superficial skin layers, reduce the sensation of tightness and improve smoothness and softness. It should not be described as directly binding to collagen and elastin in deeper skin layers without appropriate molecular-weight and penetration data. Sweet orange peel extract contributes to the antioxidant and refreshing profile of the product and may help maintain a cared-for, more even-looking complexion. Vasoprotective, anti-edematous or direct circulation-enhancing claims require specific documentation for the particular extract and are therefore not stated as primary functions of this raw

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material.

Benefits:

- Contributes to intensive hydration by binding water in the superficial layers of the skin.
- Helps reduce transepidermal water loss by forming a lightweight hydrophilic film.
- Improves the feeling of skin smoothness, softness and elasticity.
- Sweet orange peel extract contributes to the antioxidant and refreshing profile of the formulation.
- Helps relieve the sensation of tightness associated with dry and dehydrated skin.
- Suitable for lightweight hydrating and revitalizing formulations for the face and body.

Properties: Provides a pronounced humectant and skin-conditioning profile due to the combination of glycerin and Sodium Hyaluronate. The gel contributes to skin smoothness and softness and is readily incorporated into aqueous formulations. It is suitable for serums, creams, lotions, skin-cleansing products, masks, and products intended for skin care before and after sun exposure. In such formulations it provides hydrating, conditioning and antioxidant support and does not replace approved UV filters.

Directions for Use: Add to the aqueous phase or during the cool-down phase, preferably below 40 °C, to preserve the stability of Sodium Hyaluronate and the botanical extract components. The usual concentration in the finished cosmetic product is approximately 5-20%, depending on the formulation type and desired hydrating effect. It may be incorporated directly with gentle mixing until homogeneous. Compatibility with electrolytes, polymers, surfactants and the overall preservation system of the finished product should be verified. For external use only.

Animal Testing: The product has not been tested on animals

GMO: Non-GMO

Vegan: Contains no ingredients of animal origin

Country of Origin: China