

(i) Import and distribution for Serbia: Farmadria DOO

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TECHNICAL DATA SHEET

Product name: Beta Glucan

INCI name: Aqua, Glycerin, Beta-Glucan, 1,2-Hexanediol, Pentylene Glycol

CAS: 7732-18-5, 56-81-5, 26874-89-5, 6920-22-5, 5343-92-0

Chemical classification: Carbohydrate

Functional category: Skin and hair conditioning agent; Humectant

Origin of the raw material: USA

Description: Beta-glucans are a type of soluble fiber found in various natural sources, including certain grains (oats and barley), yeast, and some bacteria. The beta-glucan of exceptional value is derived from mushrooms: Shiitake (Lentinula edodes), Reishi mushroom (Ganoderma lucidum), Maitake mushroom (Grifola frondosa), Agaricus blazei (Agaricus subrufescens), and Chaga mushroom (Inonotus obliquus). Chemically, these compounds are polysaccharides, meaning they consist of long chains of glucose molecules. Beta-glucan obtained from mushrooms differs from that derived from oats. It is soluble in water and glycerin. It does not contain preservatives. The solution is colorless to slightly yellow; pH 6-8.

Benefits:

- Hydration: Beta-glucan acts as a humectant, attracting and retaining moisture. When topically applied, it can help hydrate the skin, keeping it moist and preventing dryness due to its high molecular weight and water-binding capacity.
- Antioxidant action: Beta-glucan possesses antioxidant properties, neutralizing free radicals in the skin that can damage collagen and other structural tissues. Reducing oxidative stress can help preserve collagen health.
- Anti-aging: Beta-glucan may stimulate fibroblasts, encouraging them to produce more collagen. This stimulation contributes to improved skin elasticity and firmness, reducing the appearance of fine lines and wrinkles.
- Wound healing: Research indicates that beta-glucan can impact the natural skin healing process, aiding in the repair of damaged skin. This makes it beneficial in skincare products and for treating minor skin injuries.

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- Support for the skin's immune system: Beta-glucan can stimulate the skin's immune response, contributing to defense against external stressors and influencing overall skin health.
- *Sun protection:* While not a substitute for sunscreen products, beta-glucan can offer a certain level of protection against UV radiation. It can contribute to the skin's defense mechanisms and help reduce sun-induced damage.
- *Texture enhancement:* Beta-glucans can improve the texture of cosmetic products, enhancing overall feel and spreadability of formulations, making them more pleasant for users.
- Compatibility with other ingredients: Beta-glucan blends well with various cosmetic ingredients and can be incorporated into various formulations, including creams, serums, lotions, and masks.

Usage: The component is part of the water phase of formulations. It is typically added in concentrations ranging from 1% to 5%. It remains stable when stored in closed containers in a cool and dry place. For external use only.

Application: Used as an active ingredient in numerous cosmetic products, including anti-aging creams, lotions, skin serums, masks, and in decorative cosmetics.

Original raw material source: Mushrooms - Lions Mane Mushroom (Hericium erinaceus)

Extraction method: Isolated and purified from mushrooms.

Animal testing: The substance has not been tested on animals.

GMO: Not genetically modified.

Vegan: Does not contain components of animal origin.

Customs Tariff Number: 39139090