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

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TECHNICAL DATA SHEET

Product Name: Oat Amino Acids

INCI Name: Water, Hydrolyzed Oat Protein, 1,2- dihydroxypentane, (+)-Arabinogalaktan, 3-o-Ethyl Ascorbic Acid, Benzyl alcohol, Potassium sorbate, Sodium benzoate

CAS: 7732-18-5, N/A, 5343-92-0, 9036-66-2, 86404-04-8, 100-51-6, 24634-61-5, 532-32-1

Chemical Classification: Proteins/Derivatives

Functional Category: Conditioner for skin and hair care. Forms a flexible, cohesive, and continuous film on the skin and hair.

IUPAC Name: Oat amino acids, N-dodecanoyl derivatives, sodium salts

Description: Oat amino acids are natural derivatives of oat proteins obtained through hydrolysis. These amino acids and small peptides play a crucial role in cosmetic formulations due to their multiple beneficial properties. Oat amino acids are characterized by their ability to deeply hydrate the skin. Their amino and carboxyl groups form hydrogen bonds with water molecules, which enhances hydration and contributes to a healthy skin appearance. These properties are particularly beneficial for dry and dehydrated skin that requires additional moisture. In addition to hydration, these amino acids help regenerate damaged proteins in the skin, which can result in improved skin elasticity and firmness. Their ability to penetrate deeper layers of the skin allows for effective renewal and protection against harmful external factors. Oat amino acids also form a protective layer on the skin's surface, preventing moisture loss and strengthening the skin's barrier function. As natural ingredients, oat amino acids are mild and suitable for all skin types, including sensitive skin. In cosmetic products, oat amino acids are used in various formulations, such as creams, serums, face masks, and hair care products. Their multifunctionality and natural properties make them a valuable ingredient that can significantly improve the effectiveness and performance of cosmetic products, providing the skin with the necessary care and protection. They appear as a clear liquid with a characteristic odor. pH 4-6. The product is preserved with benzyl alcohol, sodium benzoate, and potassium sorbate. Oat amino acids are water-soluble.

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Benefits:

• ***Deep Hydration:*** Oat amino acids effectively bind water, increasing skin hydration and helping to maintain optimal moisture levels. This is particularly beneficial for dry and dehydrated skin.
• ***Repair and Regeneration:*** These amino acids penetrate deeper layers of the skin, where they help repair damaged proteins, improving skin elasticity and firmness. This contributes to a youthful and healthy skin appearance.
• ***Protective Barrier:*** Oat amino acids form a protective layer on the skin, which helps prevent moisture loss and protects the skin from harmful external factors. This strengthens the skin's natural barrier function.
• ***Soothing Effect:*** The natural properties of oat amino acids help reduce irritation and inflammation, making them ideal for sensitive and irritated skin. They have a soothing effect and help reduce redness.
• ***pH Balance:*** Due to their amphoteric nature, oat amino acids can help maintain the skin's natural pH balance, which is crucial for healthy skin function and preventing irritation.
• ***Antioxidant Properties:*** These amino acids help protect the skin from oxidative stress and the harmful effects of free radicals, which can slow down the aging process and reduce the appearance of fine lines and wrinkles.
• ***Improved Skin Texture:*** Regular use of products containing oat amino acids can improve overall skin texture, making it smooth and soft to the touch.
• ***Universal Application:*** Due to their mild nature, oat amino acids are suitable for all skin types, including the most sensitive skin. They can be used in a wide range of cosmetic products, from moisturizing creams to serums and face masks.

Usage Instructions: Oat amino acids are added to the aqueous phase of emulsions at temperatures below 40°C (104°F). For making moisturizing creams, oat amino acids are typically used in concentrations ranging from 1% to 5%. This concentration provides sufficient skin hydration while offering protective properties. In formulations for dry and dehydrated skin, the concentration can be higher, close to 5%, to ensure intense hydration. In serums designed for deeper penetration and specific treatments, the concentration of oat amino acids can range between 0.5% and 3%. This allows serums to effectively repair and regenerate the skin without overburdening the formula. Lower concentrations are often sufficient to provide soothing and antioxidant effects. In hair care products, such as conditioners and hair masks, oat amino acids can be used in

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concentrations from 2% to 6%. These concentrations help restore damaged hair, improving its elasticity and strength. Oat amino acids also add moisture to the hair, making it softer and shinier. In face masks, concentrations typically range from 1% to 4%. These concentrations allow masks to provide deep hydration and skin regeneration within a short period. A mask with these amino acids can help reduce inflammation and irritation, leaving the skin smooth and soothed. For external use only. Store in a cool, dry place.

Source of Raw Material: Oats

Production Method: Hydrolyzed oat amino acids are obtained by creating a basic solution of oat flakes and adding a protease mixture to induce complete enzymatic hydrolysis. After enzyme inactivation, the solution is purified and filtered.

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

GMO: Non-GMO

Vegan: Does not contain animal-derived components.