Avena Lab
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TECHNICAL DATA SHEET

Product Name: Hydrolyzed Pea Protein

INCI: Water, Hydrolyzed Pea Protein, 1,2-dihydroxypentane, (+)-Arabinogalactan, 3-o-Ethyl Ascorbic Acid, Benzyl Alcohol, Potassium Sorbate, Sodium Benzoate

CAS: 7732-18-5, 222400-29-5, 5343-92-0, 9036-66-2, 86404-04-8, 100-51-6, 24634-61-5, 532-32-1

Chemical Classification: Proteins/Derivatives

Functional Category: Skin and hair conditioning agent. Forms a flexible, cohesive, continuous film on skin and hair.

Description: Hydrolyzed pea proteins are highly valuable ingredients in cosmetic formulations due to their excellent moisturizing and conditioning properties for skin and hair. Obtained through hydrolysis, larger protein molecules break down into smaller peptides, allowing deeper penetration into skin layers and hair follicles. Thanks to their low molecular weight, hydrolyzed pea proteins are easily absorbed. In skincare, these proteins strengthen the natural skin barrier, improving moisture retention and reducing transepidermal water loss, resulting in hydrated, smooth, and elastic skin with diminished signs of dryness and irritation. For hair care, hydrolyzed pea proteins repair damaged hair fibers, reduce breakage, and support keratin structure restoration. Their protective film formation shields hair against heat, UV rays, and environmental damage, enhancing strength, density, and shine. Their gentle nature makes them suitable for sensitive skin and hair, causing no irritation or allergic reactions, and ideal for everyday cosmetic use. Plant-based origin makes them popular in vegan and natural formulations, free from animal-derived ingredients and irritative synthetic substances. Additionally, hydrolyzed pea proteins contribute significantly to anti-aging formulations, improving skin texture, reducing fine lines and wrinkles by promoting collagen and elastin synthesis. Due to their multifunctionality, they appear widely in creams, serums, shampoos, conditioners, hair and body masks, and other personal care products. They are water-soluble in any proportion and compatible with surfactants, electrolytes, and cationic polymers.

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Benefits:

- Enhances skin hydration by retaining moisture and minimizing water loss.
- Strengthens the skin's natural barrier, protecting against pollution and UV radiation.
- Stimulates collagen synthesis, resulting in firmer, more elastic skin with reduced wrinkles.
- Provides antioxidant protection, neutralizing free radicals and slowing skin aging.
- Reduces dark circles, refreshing and brightening the under-eye area.
- Repairs damaged hair from treatments like bleaching, restoring strength and elasticity.
- Improves hair manageability, reducing breakage, making hair smooth and soft.
- Offers deep nourishment, making hair hydrated, healthier, and shinier.
- Acts as a plant-based alternative to keratin, reinforcing and revitalizing all hair types.

Usage Instructions: Hydrolyzed pea proteins are used across various cosmetic products, from skincare to hair care formulations. In skincare, commonly added to moisturizing creams, serums, and lotions at concentrations of 1%-5%, they hydrate, strengthen the skin barrier, and support anti-aging treatments. Their mildness suits sensitive skin and eye-area applications. In hair products like shampoos, conditioners, and masks, they are typically used at slightly higher concentrations (2%-6%). Proteins should be added during the cooling phase of formulations to preserve their active properties. Their versatility allows easy combination with other cosmetic actives, adapting effectively to various formulations for face, body, and hair care.

Source Material: Peas (Pisum sativum)

Extraction Method: Pea proteins are extracted from purified pea seeds, followed by enzymatic hydrolysis producing free amino acids and peptides.

Animal Testing: Substance has not been tested on animals

GMO Status: Non-GMO

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Vegan: Contains no animal-derived components

Transport and Storage: Hydrolyzed pea protein can be transported at temperatures up to 25°C for short durations without significant quality impact. For long-term preservation of bioactivity and integrity, refrigeration between 4°C and 8°C is recommended. Low-temperature storage prevents protein degradation, oxidation, and efficiency loss, extending shelf-life and maintaining functional attributes. Refrigeration also minimizes microbial contamination risks or unwanted changes in texture and quality.