



ASCOPHYLLUMFERMEN™

(HYDROLYZED SEAWEED FERMENT)

Seaweeds or Macroalgae or Marine Algae, are the aquatic photosynthetic organisms taxonomically characterised as algae. Since long they have been used as an alternative medicine for skin related diseases. Seaweeds have been most desirable source of research for their bioactivity and bioactive compounds like polyphenols, fucoidan, phlorotannin, carotenoids, Vitamins, minerals & certain Peptides. The Sea weed variant used here belongs to the common cold water seaweed or brown algae in the family Fucaceae. Our Seaweed ferment extract has been developed using a “Patent (Pending) hydrolysis process” further enhancing it’s functionality using “Nanotechnology”.

INCI: Ascophyllum Extract (Enzyme Hydrolyzed), Alkaline water, Phenoxyethanol & Sorbate

KEY NUTRITIONAL SPECS	CONTENT RANGE	FUNCTIONAL BENEFITS/APPLICATION
Botanic Nano-Actives (Using Rapid Refractive Index)	Min 12%	<p>Skin Care: The active components from the seaweeds could be used as an Antiphotaging, Anti-inflammatory Antiallergic, antioxidant, antibacterial whitening agent for different Skin care Products. It can be used in brightening creams, under-eye cream, anti-aging cream etc.</p> <p>Hair care: In shampoos used to treat dandruff, it helps calm an inflamed or irritated scalp. Scalp Nourishment: The minerals in seaweed, including iron and zinc, play a pivotal role in maintaining a healthy scalp environment, which is essential for promoting hair growth. Natural Shine and Strength: Seaweed's nutrient profile supports hair structure, contributing to shine, strength, and elasticity.</p>
Secondary Metabolites (Data may vary subject to test conditions & product origin & growing environment/Season)	Phlorotannins-1.5-2.0% Alginates & Fucoidans-2.0-4.5% Phytosterols – 0.12-0.75%	
pH	6-7	
Solubility	Water phase Soluble	
Specific Gravity	0.90-1.0	

Scientific Literature References : * Ismail MM, El Zokm GM and Miranda Lopez JM (2023) Nutritional, bioactive compounds content, and antioxidant activity of brown seaweeds from the Red Sea. Front. Nutr. 10:1210934. doi: 10.3389/fnut.2023.1210934 ** Mar. Drugs 2019, 17, 688; doi:10.3390/md17120688.

Suggested Dosage in Skin/Hair care formulation:

4-5%. The Ferment can be “Customized” based on “Botanic Nano-Active” % as per requirement.

Packing, Shelf life & Storage conditions:

Shelf life 18 Months. Store in ambient conditions preferably Cool Dry place, away from heat & Sunlight. Packing – 5 kgs & 20 kgs HDPE Cans.

We are also pleased to offer our “Seaweed Extract” based on Patent Pending (No.: 202341036475) Process Technology

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