

PASSPORT



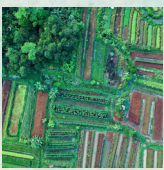
20624PF

AC Plant Keratin PF



Start:

Local farms near our different manufacturing facilities in the USA, Italy, and Taiwan provide the raw materials. Corn is sourced from the USA, Italy, and Thailand. The wheat and soy are sourced from USA, Italy, and Japan.



To allow corn, wheat, and soy protein to be easily incorporated into cosmetic applications, each of these proteins went through enzymatic hydrolysis.



Final stop:

The final product is AC Plant Keratin, designed as a biomimetic replacement for hydrolyzed animal keratin and characterized by moisturization and conditioning properties for skin and hair care.

Road Map Tour

Corn, wheat, and soy proteins are hydrolyzed to develop a vegan alternative to animal derived keratin

The abundant corn, wheat, and soy plants in nature offer an easy way to duplicate the amino acid profile of animal keratin. For many farms, corn, wheat, and soy are sustainable crops because they help with crop rotation. Crop rotations help to increase soil fertility while preventing soil erosion. For instance, growing soybeans is frequently done after growing corn because the former removes nitrogen from the soil while the second helps to replenish it. Additionally, soybeans are used as a cover crop to reduce soil erosion and enhance soil quality. Growing wheat also aids in reducing weeds and battling various diseases that might impact their other crops. Consumer worries about the use of animal proteins have recently led to the development of suitable plant-based substitutes made from sustainable sources such as wheat, corn, and soybeans. AC Plant Keratin provides the perfect vegan alternative to improve the conditioning and moisturizing effects in a wide variety of skin and hair care applications.

We want to be transparent in our supply chain from harvest to production. It's important to know where our raw materials come from and where they are going.

Safety & Toxicology

Non-phototoxic

Non-irritant to skin

Non-sensitizing

Non-irritant to eyes

Non-harmful to aquatic life

Regulatory

INCI: Hydrolyzed Corn Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein

CAS: 100209-41-4 & 70084-87-6 (or) 94350-06-8 & 68607-88-5

EUROPE: Compliant

USA: Compliant

JAPAN: Compliant

CHINA: Compliant



Environmental Impact

Active Concepts Production

0.335 kg CO2e per kg

0.202 kW energy per kg

86.55% Biodegradable after 28 days

0.461 litres water per kg

0.576 kg compost per kg

Animal Welfare

Never tested on animals and made from non-animal-derived ingredients. Neither we or our supply chain have allowed contact with any animal products, animal by-products, or derivatives.



Ethical Trade

We obtain corn, wheat, and soy from suppliers who follow fair trade principles, strict labor rules, and preserve the welfare of their workers.



Community Welfare

By providing fair pricing and premium funds for social, economic, and environmental maintenance, such as building schools and healthcare facilities, our suppliers improve the standard of living for their farmers.



Specification

ORIGIN: Botanical

PRESERVATIVES: None

APPEARANCE: Amber Liquid

SOLVENTS: Water

USE LEVEL: 1.0 - 5.0%