

PASSPORT



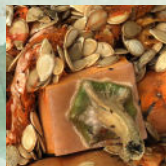
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# ACB Modified Pumpkin Enzyme PF



## Start:

Pumpkin biomass is sourced from farms and processing facilities local to our respective manufacturing sites in the USA, Italy, and Taiwan.



## Final stop:

A stabilized fruit enzyme:  
ACB Modified Pumpkin Enzyme PF



The pumpkin biomass is macerated and fermented with the probiotic bacteria *Lactobacillus lactis*. Through the use of selective filtration techniques, the proteolytic fruit enzymes are isolated.

## Road Map Tour

Locally sourced pumpkin biomass used to promote a more sustainable provenance

USA: Pumpkins are sourced locally from farms in the Carolinas that harvest pumpkin seeds. Pumpkin seed harvesters are utilized to collect pumpkins in the field and extract the seeds. The pumpkins are fed into a machine, which then separates the seeds from the pumpkin flesh. The pumpkin remnants are typically expelled from the machine to enrich the soil or be collected as waste.

Italy: Pumpkins are sourced locally from the north and northeast of Italy. Typically, the pumpkins are peeled and cut before being packaged, ready to be sold in supermarkets. From this processing, we can take the discarded peels, flesh, and pulp. In this way, we are not competing with the food chain and are reducing the amount of waste produced.

Taiwan: Pumpkins are sourced locally from organic farms in Yunlin (west of Taiwan), where the family-owned farms implement strategies for organic management of water quality, fertilization, and pest control.

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: Lactobacillus/Pumpkin Fruit Ferment Filtrate

CAS: 89998-03-8

EUROPE: Compliant

USA: Compliant

JAPAN: Compliant

CHINA: Contact Us



## Specification

ORIGIN: Botanical/Bacteria

PRESERVATIVES: None

SOLVENTS: None

APPEARANCE: Clear to Slightly Hazy Viscous Liquid

USE LEVEL: 1.0 - 10.0%

## Environmental Impact

Active Concepts Production

0.335 kg CO2e per kg

0.579 kW energy per kg

90.8% Biodegradable after 28 days

1.482 litres water per kg

0.697 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

Working directly with smaller suppliers within the EU, USA, and Taiwan helps to ensure that workers' rights are upheld. Our suppliers do not use irregular migrant or child workers.



## Community Welfare

We are building relationships with local companies and farmers. This helps to support our local communities and the farming traditions within our manufacturing countries.



Version#2/08-01-23/Form#163

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