

PASSPORT



16882

Phytofuse Rejuvenate®



Start:

Organic chia seeds are originally sourced from Peru for our three manufacturing sites in the USA, Italy, and Taiwan.



Active Concepts

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Final stop:

Phytofuse Rejuvenate®: Isolated chia exopolysaccharides aid in cell proliferation, wound healing, and anti-inflammation.



Chia seed coatings are grown in culture under optimized conditions to form callus cells naturally concentrated in bioactive materials. The formation of callus cells yields a maximum amount of chia-derived exopolysaccharides.



Road Map Tour

Chia exopolysaccharides isolated from plant tissue cell culture: a sustainable "lab-grown" technology

Salvia hispanica is a member of the mint family and has small, mucilaginous seeds known as chia. Native to Mexico and Guatemala, chia was an important crop for ancient Aztec and Mayan cultures. Today, chia is grown throughout Central and South America and is a popular superseed. As sustainability concerns increase, we look to develop ingredients which promote biodiversity and environmental protection.

Cell cultures offer the opportunity to grow numerous plants under controlled conditions. These methods supply a sustainable source of plant material without the influence of slow plant growth, seasonal harvest, and variations in quality. By working with "lab grown" biotechnologies to produce ingredients for personal care, we do not have to fully rely on the availability of crops. Biotechnologies can also help to limit a negative impact on the environment, using less resources (such as water and energy), and reducing transportation and CO₂ outputs while providing the means to create consistent active ingredients.

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: *Salvia Hispanica* Seed Extract

CAS: 93384-40-8

EUROPE: Compliant

USA: Compliant

JAPAN: Compliant

CHINA: Compliant



Specification

ORIGIN: Botanical/Bacteria PRESERVATIVES: None

APPEARANCE: Light Yellow to Amber, Hazy Viscous Gel
SOLVENTS: Water
USE LEVEL: 1.0-10.0%

Environmental Impact

Active Concepts Production



0.199 kg
CO₂e per kg



0.565 kW
energy per kg



90.9%
Biodegradable
after 28 days



0.979 litres
water per kg



0.129 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

Cell culture offers the opportunity to grow numerous plants, creating a sustainable source of material without disrupting the environment or competing with the food chain.



Community Welfare

Our suppliers support small communities in the Peruvian highlands with focus on respect for people and the environment. Traditional farming techniques hundreds of years old are still used today.

