



COSMOS
APPROVED

PhytoSpherix™
Plant-based glycogen
to energize the skin



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Naturally Energize the Skin with PhytoSpherix™ for a Youthful Appearance

Skin cells are continuously exposed to environmental stresses, and, therefore, greatly rely on large amounts of energy to combat cellular – and consequently skin – damage. As we age, cellular energy levels decline and the deficiencies in skin energy can result in premature skin aging.

By providing glycogen, the cells are given energy to use whenever it is needed and wherever it is needed. This can then result in many beneficial effects for the skin. There is, however, one problem: Glycogen is the glucose storage unit found in mammalian cells and it is usually isolated from animal sources. Nevertheless, Mibelle Biochemistry can provide an alternative: the plant-based phytoglycogen PhytoSpherix™.

PhytoSpherix™ is a phytoglycogen that is isolated from a special non-GMO sweet corn. It is chemically identical to the glycogen stored in animal cells but is produced and stored in plants.

In vitro and *in vivo* studies have shown that PhytoSpherix™

- stimulates ATP production and increases cell proliferation and metabolic activity
- increases hyaluronic acid and collagen production
- provides fast and long-lasting hydrating effects
- effectively reduces visible wrinkles
- boosts the effects of hyaluronic acid in a formulation
- reduces skin hyperpigmentation.

PhytoSpherix™ is naturally produced by a special variety of sweet corn and it is extracted through a mild water-based process. It is a safe and natural botanical extract.

These qualities, combined with the chemical properties and the known beneficial effects of glycogen for the skin, make PhytoSpherix™ an excellent and multi-purpose cosmetic active.

PhytoSpherix™ is COSMOS approved*

PhytoSpherix™

- Energizes skin cells
- Promotes collagen and hyaluronic acid production
- Reduces wrinkles and fine lines
- Improves skin hydration
- Reduces pigment spots

Applications

- Anti-aging formulas
- Hydration creams
- Skin-energizing essences
- Pigment correction and brightening fluids

Formulating with PhytoSpherix™

- Recommended use level: 0.1–0.3%
- Incorporation: For cold processes, dissolve PhytoSpherix™ into the aqueous phase.
In hot/cold processes, add during the cooling phase below 40°C
- Thermostability: Temperatures of up to 70°C for a short time will not affect the stability of PhytoSpherix™

INCI (EU/PCPC) Declaration

PhytoSpherix™ (standard version, COSMOS approved*):
Glycogen

PhytoSpherix™ L105 (10% liquid version, COSMOS approved*): Aqua (and) Pentylene Glycol (and) Glycogen

Adveen™ (powder, vaginal treatments, feminine hygiene, COSMOS approved*): Glycogen

Additional Information

- Vegan
- Pure substance
- Produced from non-GMO sweet corn

* Raw material approved by ECOCERT GREENLIFE in accordance with the COSMOS Standard

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Marketing Benefits

- Unique phytoglycogen based on non-GMO sweet corn
- Synergistic effect with hyaluronic acid
- Patented production process
- 100% natural origin
- COSMOS approved

Innovating for your success

Mibelle Biochemistry designs and develops innovative, high-quality actives based on naturally derived compounds and profound scientific know-how. Inspired by nature – Realized by science.



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