

PhytoSpherix™

Nature's Beauty Secret



MIREXUS  S
www.mirexus.com

Wrinkle Erasing



PhytoSpherix™ increases cellular metabolism and promotes collagen and hyaluronic acid production in skin cells.

Overall Wrinkle Reduction

Eye Area²



Forehead Area²



Eye Area²

Crow's feet reduction
at 0.1% PhytoSpherix™
Up to:
11% in wrinkle area
5% in wrinkle depth

Forehead Area²

Lines erasing
at 0.1% PhytoSpherix™
Up to:
75% in wrinkle area
20% in wrinkle depth

-22%
Deep wrinkles³

+36%*
Skin
smoothness³

-21%
Fine lines³

*p ≤ 0,05

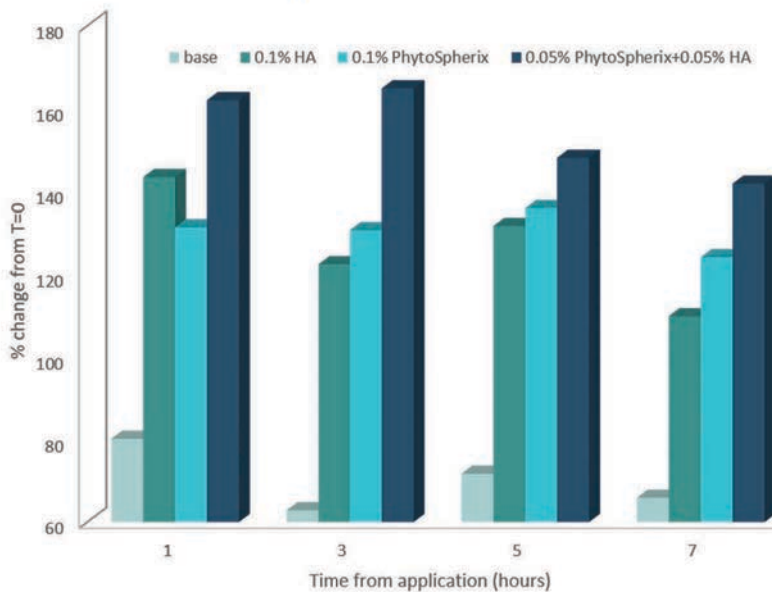
1- *In vivo*, self-assessment study on 20 volunteers (0.1% PhytoSpherix™), results after 4 weeks with 2 applications/day vs. T0.
2- *In vivo*, clinical study on 30 women (0.1% PhytoSpherix™) results after 6 weeks with 2 applications/day. vs. T0.



Barrier Function

PhytoSpherix™ tightly holds water for long periods of time and boosts hydration performance when used on its own or in combination with HA (hyaluronic acid).

Great Hydration Performance⁴



75%¹
"My skin is
soothed"

69%¹
"My skin is
hydrated"

63%¹
"My skin is more
comfortable"

63%¹
"My skin is
less sensitive"

PhytoSpherix™ at 0.1% improves skin hydration by 60% after 7 hours versus placebo.

PhytoSpherix™ boosts Hyaluronic Acid moisturizing performance instantly and after 7 hours up to 40%.

PhytoSpherix™ was found to perform as well as hyaluronic acid, with the combination of these materials outperforming both materials individually, indicating some type of synergistic effect.

+23%*
Skin barrier
function
reinforced⁶

-38%
Skin sensitivity⁵

+130%*
Skin hydration⁴

3- *In vivo*, clinical study on 30 women (0.3% PhytoSpherix™) results after 6 weeks with 2 applications/day vs. placebo.

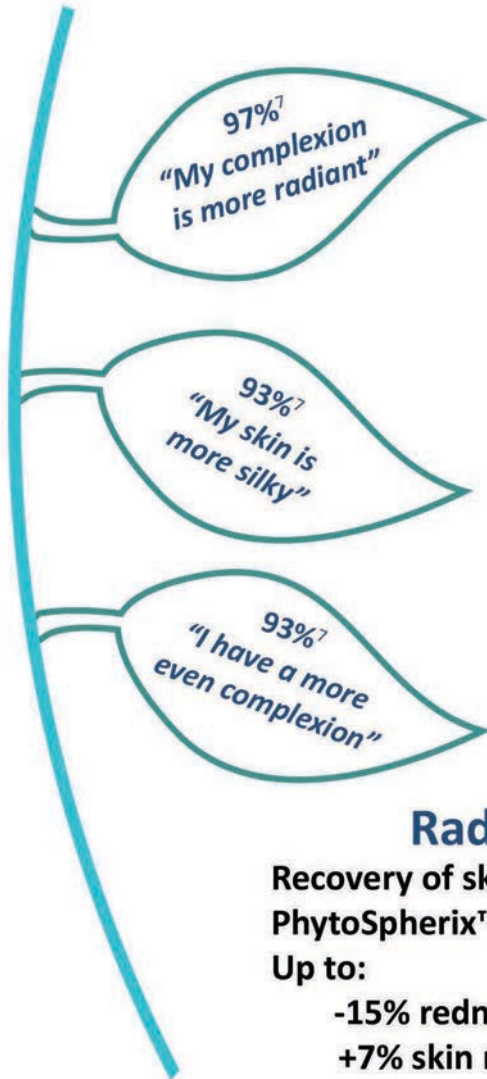
4- *In vivo*, clinical study on 13 volunteers (0.1% PhytoSpherix™) results after 7 hours vs. T0.

5- *In vivo*, clinical study on 20 volunteers (0.1% PhytoSpherix™), results after 4 weeks with 2 applications/day vs. T0.



Bright and Even Tone

PhytoSpherix™ recovers skin luminosity and enhances skin tone.



Radiance²



Week 0

Week 6

Dark Spot Fighter²



Week 0

Week 6

Radiance²

Recovery of skin luminosity at 0.1% PhytoSpherix™

Up to:

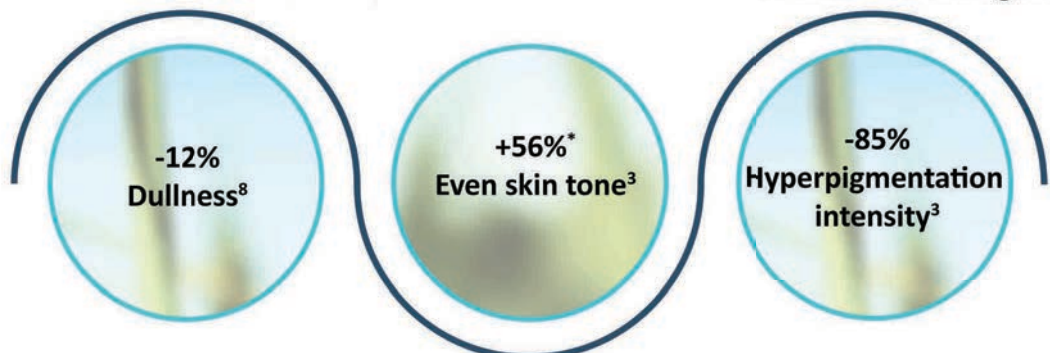
- 15% redness
- +7% skin radiance
- +7% skin homogeneity

Dark Spot Fighter²

Skin tone enhancement at 0.3% PhytoSpherix™

Up to:

- 59% in pigmentation area
- Resulting in
- + 12% skin homogeneity



6- *In vivo*, clinical study on 20 volunteers (0.1% PhytoSpherix™), results after 2 weeks with 2 applications/day vs. T0.

7- *In vivo*, self-assessment study on 20 volunteers (0.3% PhytoSpherix™), results after 4 weeks with 2 applications/day vs. T0.

8- *In vivo*, clinical study on 30 women (0.3% PhytoSpherix™) results after 4 weeks with 2 applications/day. vs. baseline.

PhytoSpherix™ : The Multi-Functional Glycogen



PhytoSpherix™ is a native form of glycogen obtained through a patented green, water-based, process.

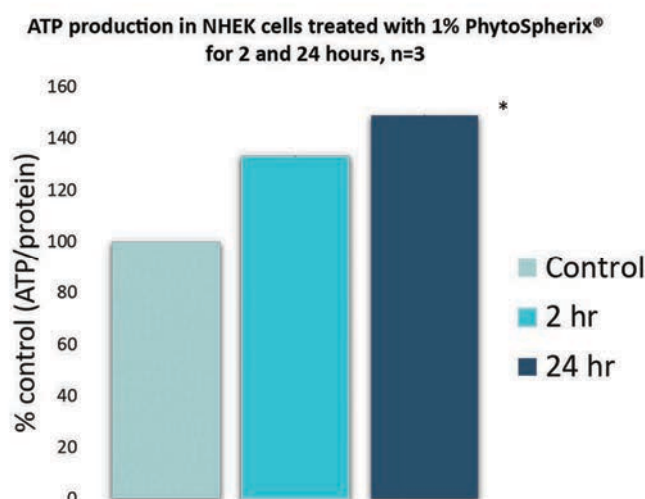
Highly branched polysaccharide with a unique spherical dendrimeric structure.

INCI NAME	GLYCOGEN
CAS Number	9005-79-2
EINECS/ELINCS	232-683-8

Due to its native bio-identical structure PhytoSpherix™ has the same effect as glycogen.

PhytoSpherix™ : can boost ATP production in skin cells

PhytoSpherix™ effect on ATP production in vitro was evaluated. Normal human epidermal keratinocytes (NHEK) were treated with or without PhytoSpherix® (0, 0.2, 0.5, or 1%) for 2 hrs and 24 hrs and ATP production was measured by luminescence assay.



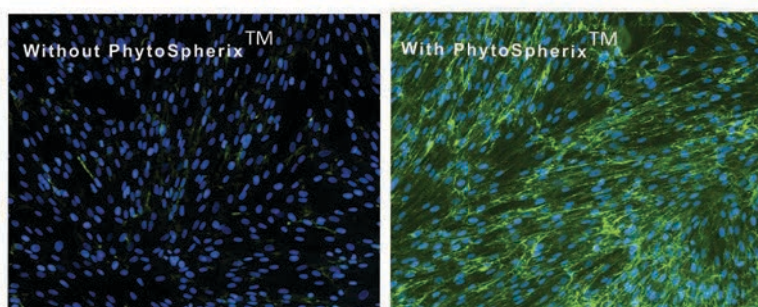
An increase in ATP production was seen after only 2 hrs when treated with 1% PhytoSpherix® (133% of control).

Effect of PhytoSpherix™ is dose dependent, with higher doses having a greater effect in the concentration range tested (0-1%).

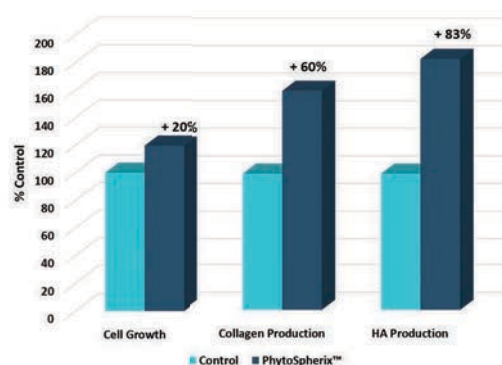
1% PhytoSpherix™ had a statistically significant effect on ATP production 24 hours after treatment compared to the control (149% of control).

A booster in Cellular Response

PhytoSpherix™ increases the metabolic activity of fibroblasts. In vitro studies conducted on human fibroblast cells exposed to 0.05% after 36 hours revealed PhytoSpherix™ increases cellular growth rate, Type 1 collagen production, and hyaluronic acid production.



Microscopic image of cells (blue) producing Type 1 collagen (green) with and without PhytoSpherix™



Cellular response of human fibroblast cells after 36 hours with and without PhytoSpherix™

PhytoSpherix™ : Global Regulatory Compliance

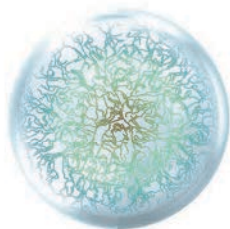


Global Acceptance

PhytoSpherix™ is:

- Listed on the Inventory of Existing Cosmetics Ingredients in China (IECIC)
- Compliant with KPCA, ASEAN, US FDA, CRC
- Is REACH exempt - According to Annex V of Regulation (EC) No. 1907/2006

These properties are unique to a truly natural ingredient:



- Phytoglycogen is a natural constituent of our skin
- It is perfectly tolerated, eliminating any adverse response
- Nourishes cells using normal metabolic processes
- PhytoSpherix™ is considered as readily biodegradable as per the OECD 301 B Guideline

Formulating with PhytoSpherix™

Typical usage level ranges from 0.05 - 0.3% depending on the application and desired effect.

Moisturizing Creams: 0.1 - 0.2% when used alone, or 0.05 - 0.1% when used in combination with other actives (i.e. hyaluronic acid).

Anti-aging Formulas: 0.1 - 0.3%.

PhytoSpherix™ has synergistic effects with many cosmetic active ingredients. Contact us if you have interest in specific molecules.

Also now available in LIQUID FORM

PhytoSpherix™ LIQUID
10% Phytoglycogen solution
(Water, Glycerin, Phenoxyethanol)

PhytoSpherix™ L105
10% Phytoglycogen solution
(Water, Pentylene glycol)