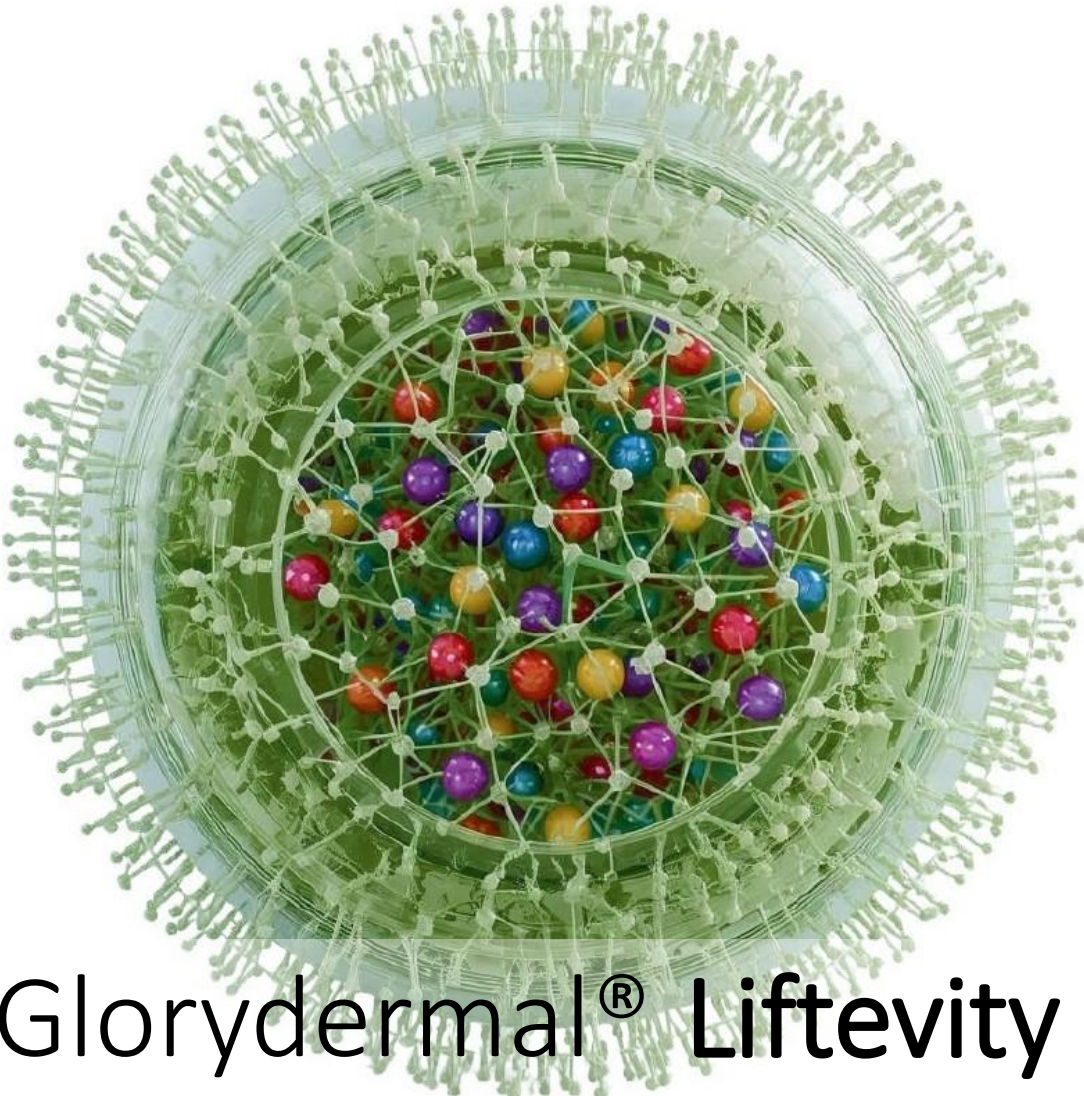
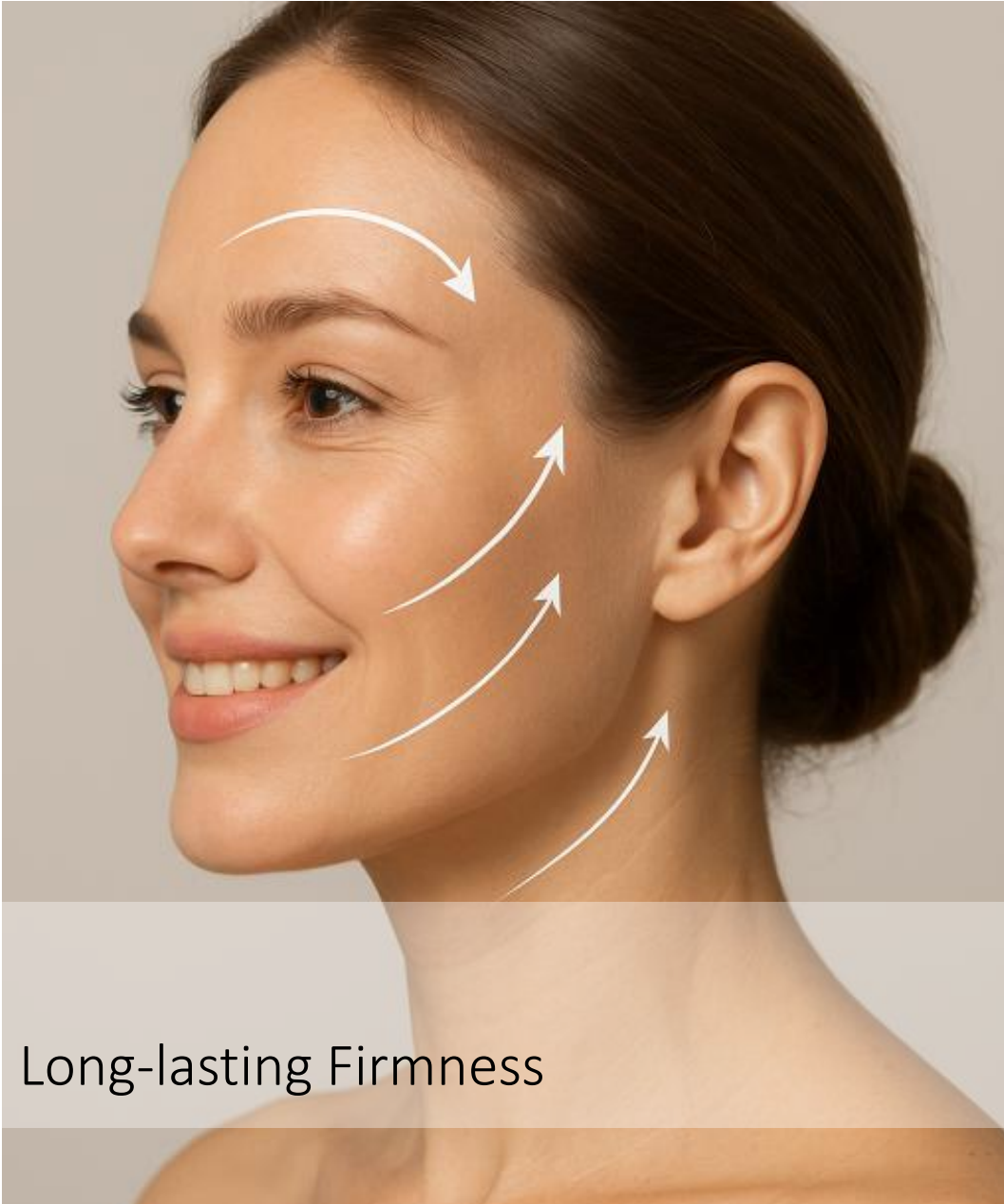


# LONGEVITY & PROTECTIVE BEAUTY



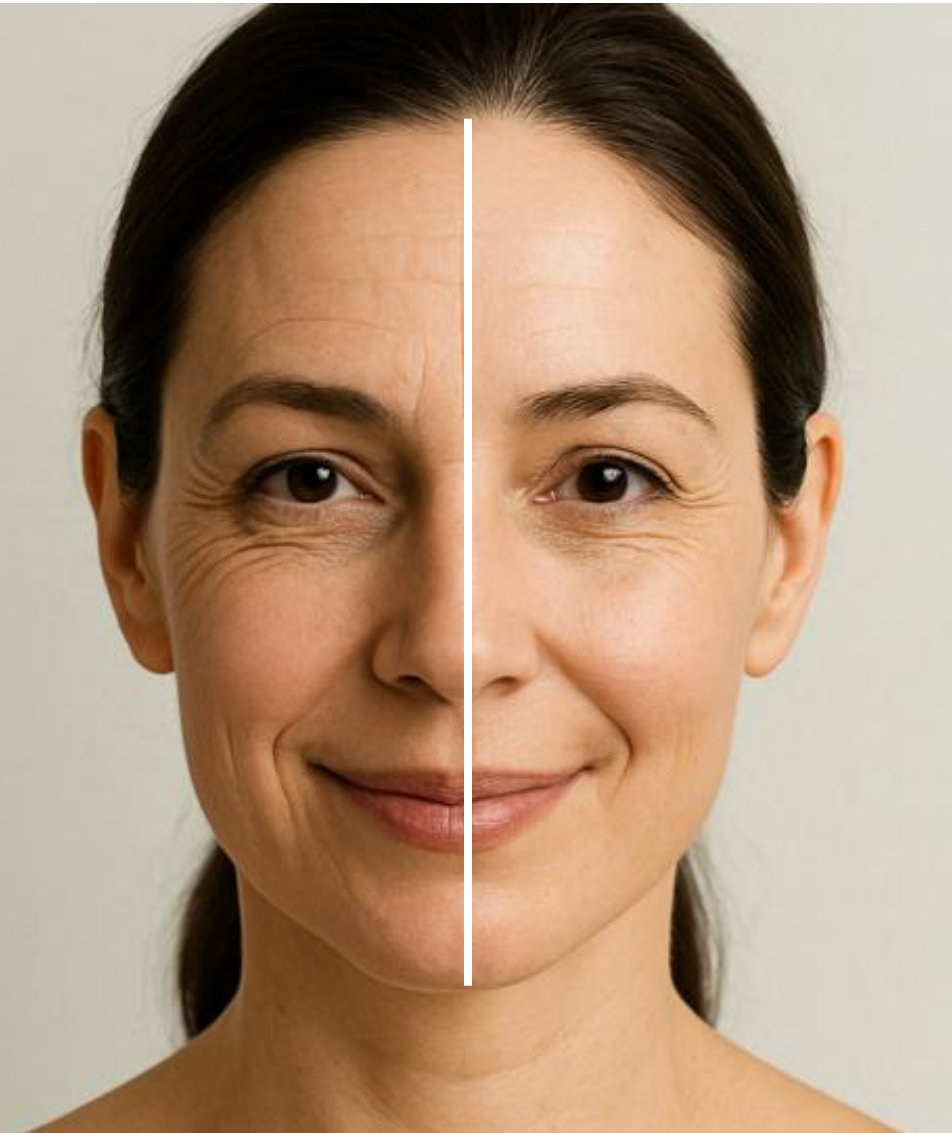
Glorydermal<sup>®</sup> Lifteivity



Long-lasting Firmness



# Lifteivity – Lifting and Longevity – Protective Beauty



**Longevity concepts** in cosmetics target skin ageing in different ways with the common goal to **rejuvenate the appearance of the skin** and **effectively counteract the signs of skin ageing process**.

Loss of **skin firmness** and **elasticity** are key issues of mature skin.

**Longevity** is primarily associated with **long-term effects**. The best results can be achieved with **powerful active ingredients** that are **continuously released in the skin**.

The active ingredient **Glorydermal® Lifteivity** ideally matches the **longevity approach**, combining **lifting properties** with **long-lasting efficacy** to **protect the beauty of your skin**.



# Product Description

## Innovative Green Capsules for Sustainable Lifting and Skin Renewal

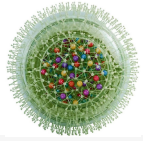
### 3 High Performance Peptides in 1 Green Capsule:

**Palmitoyl Pentapeptide-4** (peptide in **Matrixyl®**), **Tripeptide-1** and **Hexapeptide-9** united within a **marine-derived alginate capsule**, coated with a **lecithin lipid layer** to enhance stability, penetration and delivery.

Together, they

- **boost collagen and elastin synthesis,**
- **support skin repair and**
- **restore youthful firmness and radiance.**

➔ All through a **sustainable, next-generation delivery system.**



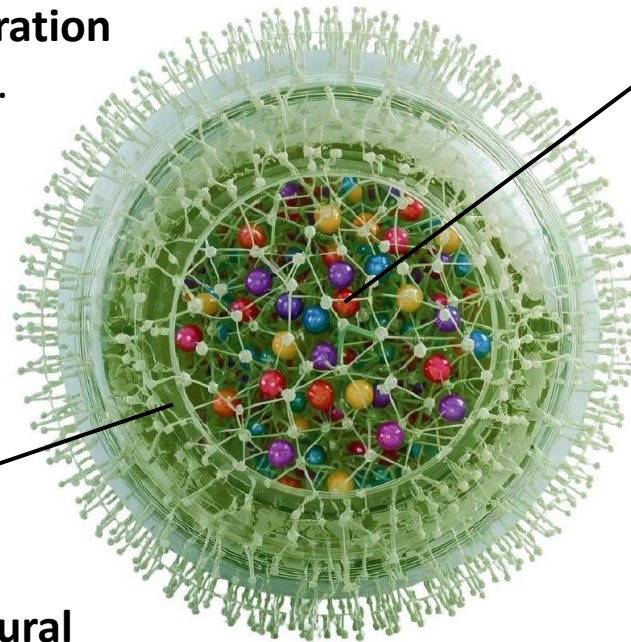
# Product Description

## LECITHIN COATING

Forms a **lipid layer** surrounding the alginate capsule to enhance skin compatibility, **improve penetration** and preserve peptide bioactivity.

## ALGINATE CORE

200-1000 nm particles. A **natural polysaccharide capsule** ensuring **protection**, stability and **controlled release** of peptides.



## ENCAPSULATED PEPTIDES

### Palmitoyl Pentapeptide-4

#### Peptide in Matrixyl<sup>®</sup>,

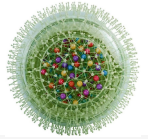
stimulates extracellular matrix renewal and helps to reduce wrinkle depth.

### Tripeptide-1

Promotes collagen and elastin synthesis, improving skin firmness and elasticity.

### Hexapeptide-9

Supports tissue repair and smoothes fine lines.



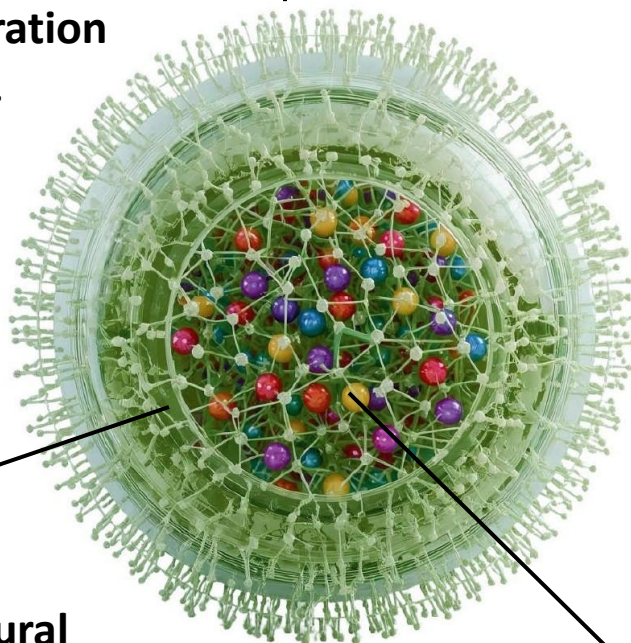
# Advantages of the Innovative Green Capsule

## LECITHIN COATING

Forms a **lipid layer** surrounding the alginate capsule to enhance skin compatibility, **improve penetration** and preserve peptide bioactivity.

## ALGINATE CORE

200-1000 nm particles. A **natural polysaccharide capsule** ensuring **protection**, stability and **controlled release** of peptides.



## HYBRID BETWEEN CAP AND LIPOSOME:

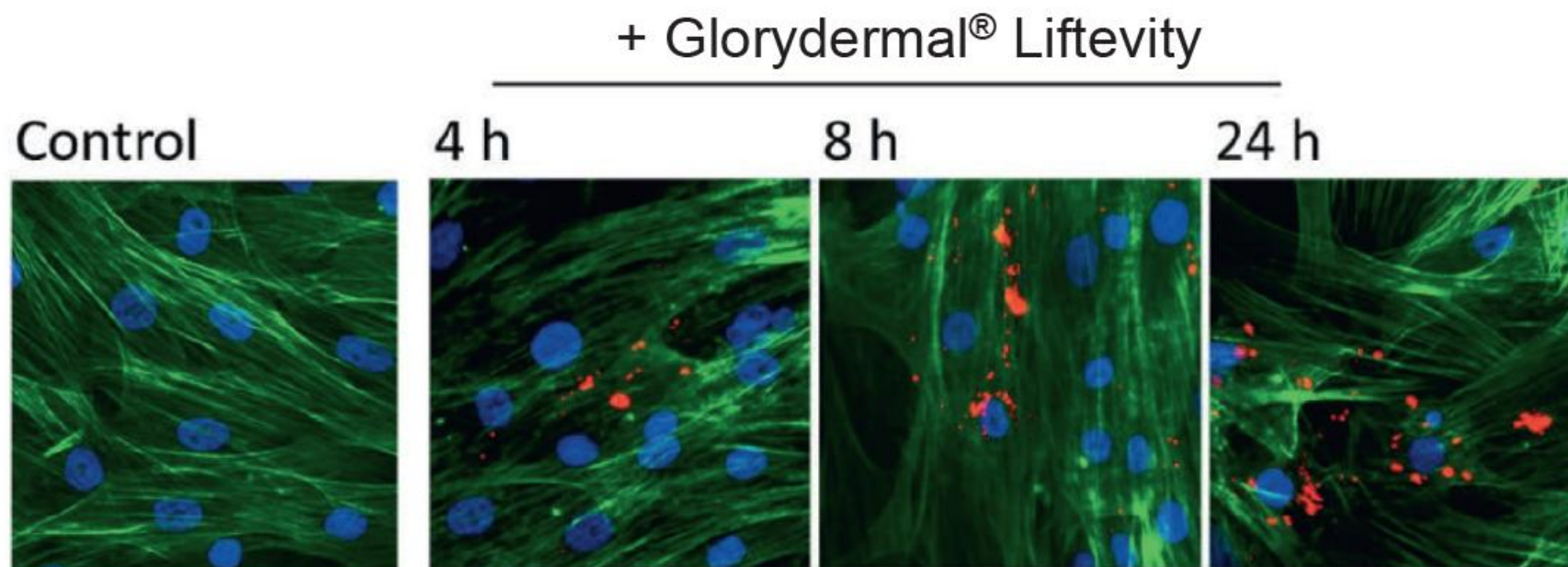
- Combining the **high stability of caps** (alginate core) with the **enhanced and fast penetration of liposomes** (lecithin coating)
- **Gradual release** of the encapsulated peptides offers **long-lasting effects**
- **Natural capsule material** (alginate) as an alternative for synthetic polymers often used for caps
- **first of its kind, completely new** in the market

## ENCAPSULATED PEPTIDES

Palmitoyl Pentapeptide-4 (peptide in **Matrixyl®**),  
Tripeptide-1 and Hexapeptide-9.



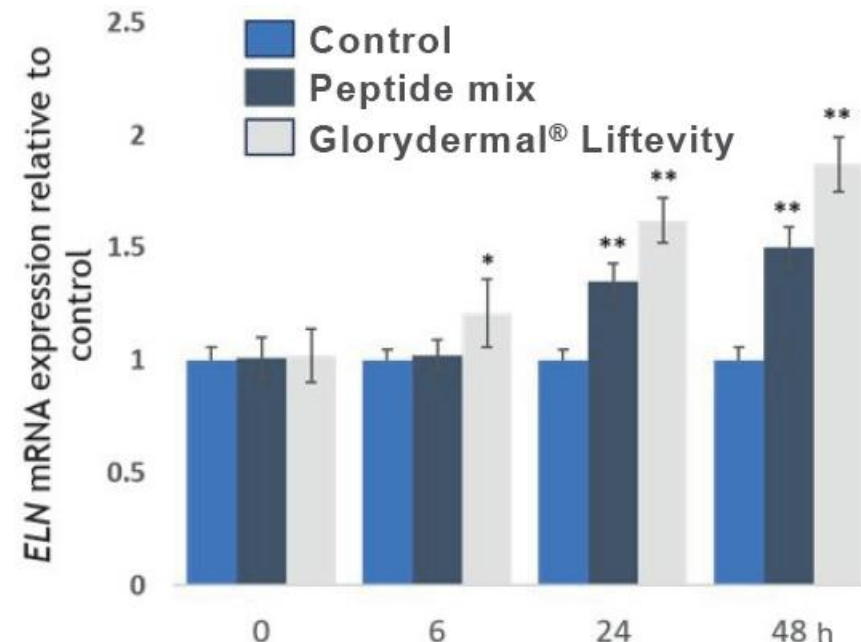
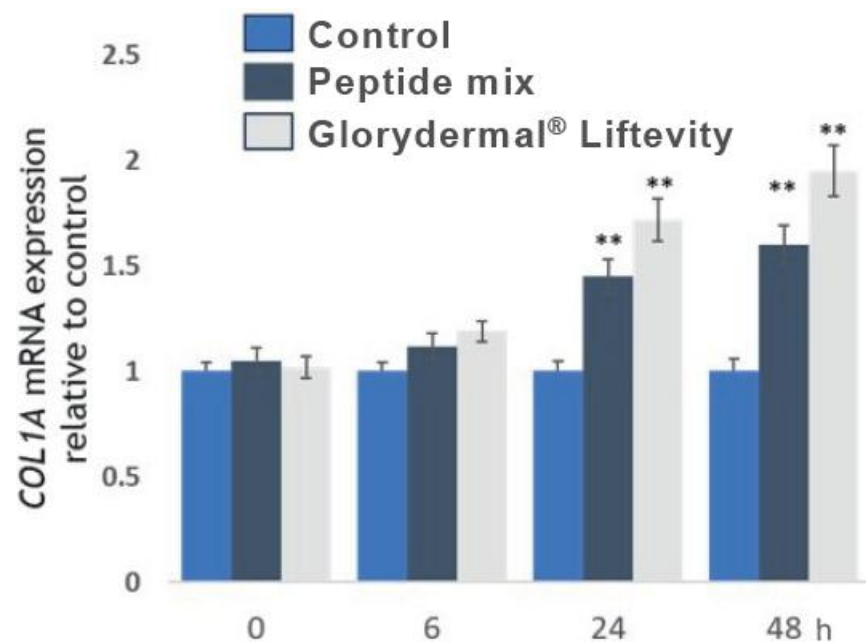
# In vitro Study – Cellular Uptake by Fibroblasts



Confocal microscopy images of human dermal fibroblasts incubated with 20  $\mu\text{g}/\text{mL}$  Glorydermal<sup>®</sup> Lifteivity containing Cy5-labeled particles (red). Actin cytoskeleton stained with phalloidin (green), cell nuclei labelled in blue. Images show **progressive cellular uptake at 4, 8 and 24 hours.**



# In vitro Study – Boosted Collagen I and Elastin Expression



Treatment with 0.3% Glorydermal® Lifteivity significantly upregulated collagen and elastin mRNA expression in human dermal fibroblasts after 48 hours, showing greater induction than the free peptide mix. These results demonstrate **Glorydermal® Lifteivity's superior ability to stimulate ECM synthesis and promote skin firmness and elasticity.**



# In vivo Study – Improved Skin Firmness and Elasticity

Cream containing 3% Glorydermal® Lifteivity

20 women (aged 35-55 years)

28 days, twice daily application

Cutometer® MPA 580: measurements before treatment (D0) and after 28 days of treatment (D28)

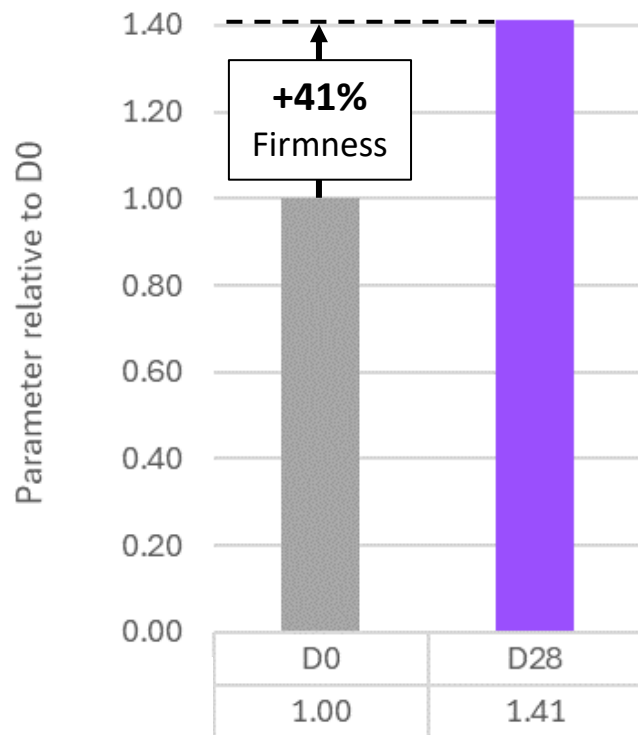
5 repeated measurements on the cheek of each volunteer at D0 and D28

VISIA®-CR: highresolution images at D0 and at D28



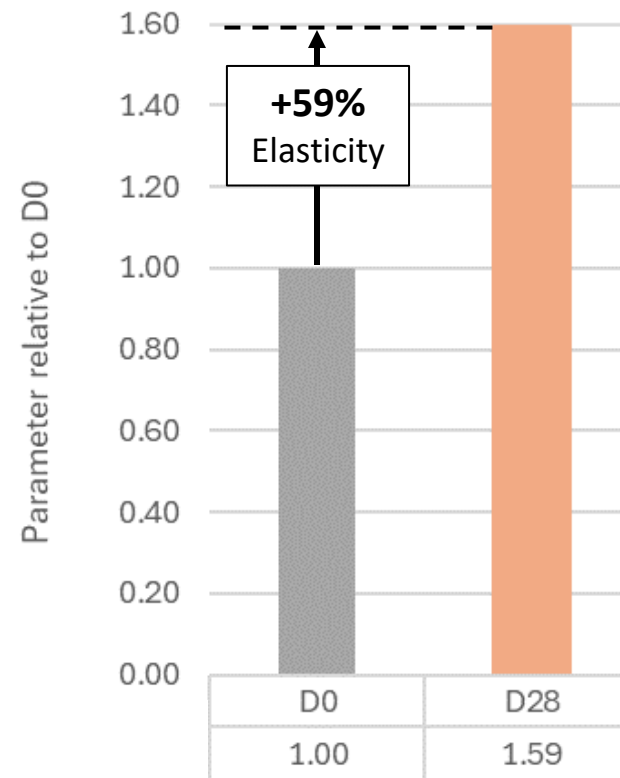
# In vivo Study – Improved Skin Firmness and Elasticity (Cutometer®)

95% of the volunteers showed increased skin firmness



The volunteers showed a significant increase in skin firmness reaching up to **41%** (best responder, mean 13.8% ( $p < 0.0001$ )).

70% of the volunteers showed increased skin elasticity



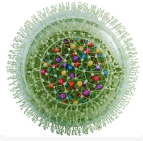
The volunteers showed a significant increase in skin elasticity reaching up to **59%** (best responder, mean 11.9% ( $p < 0.05$ )).



# In vivo Study – Improved Skin Firmness and Elasticity (VISIA®-CR)



Representative macroscopic images taken with VISIA®-CR before (D0) and after 28 days (D28) treatment with a cream containing 3% Glorydermal® Lifteivity showing improved skin firmness.



# Technical Data

## Glorydermal® Lifteivity

**Product Code:** GD-LE-001

### **INCI EU (CTFA/PCPC):**

AQUA (WATER), GLYCERIN, LECITHIN, ALGIN, PALMITOYL PENTAPEPTIDE-4, TRIPEPTIDE-1, HEXAPEPTIDE-9, XANTHAN GUM, CALCIUM CHLORIDE.

### ADDITIVES, PRESERVATIVES:

PROPANEDIOL, 1,2-HEXANEDIOL, CAPRYLYL GLYCOL.

**Appearance:** light to dark brown, viscous solution

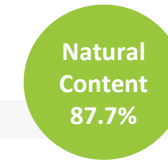
**Solubility:** dispersible in water

**Recommended dosage:** 1-3%

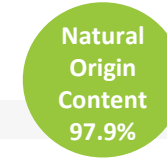
**Formulation:** at the end of the production at a temperature < 40°C



COMPLIANT



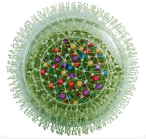
ISO 16128



ISO 16128



VEGAN



## Summary – LONGEVITY & PROTECTIVE BEAUTY

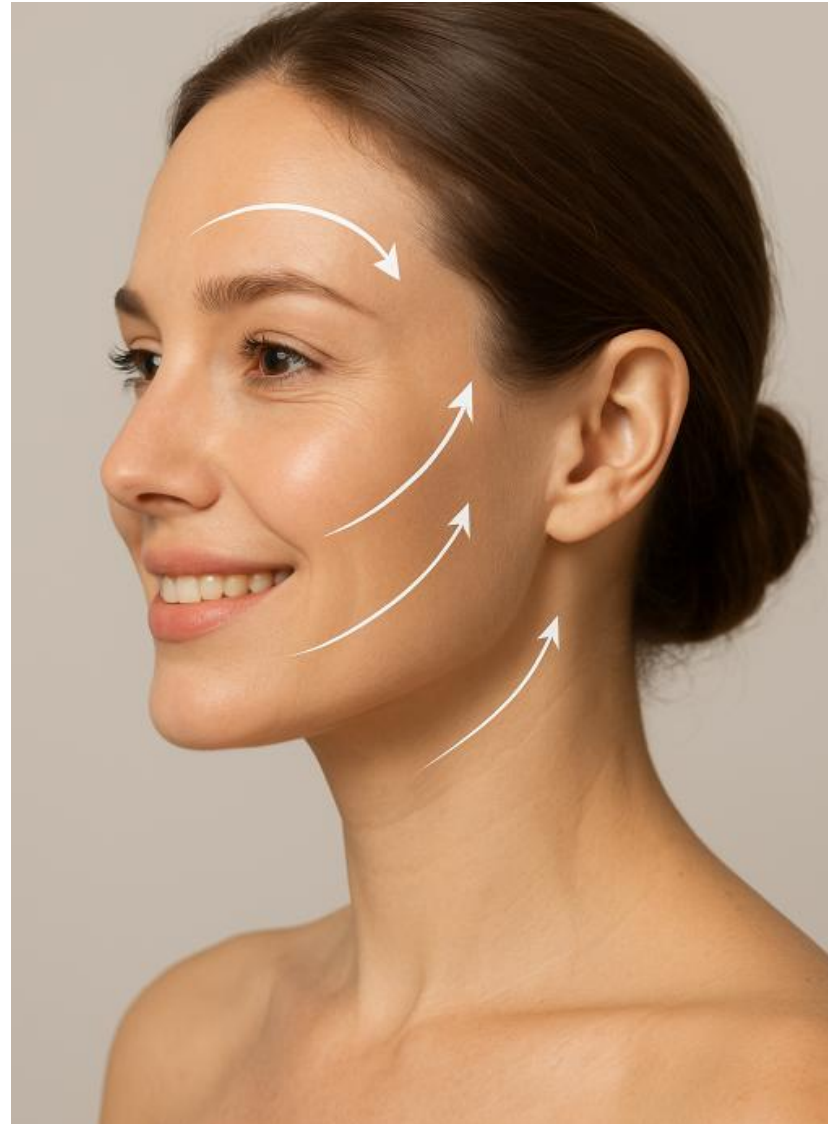
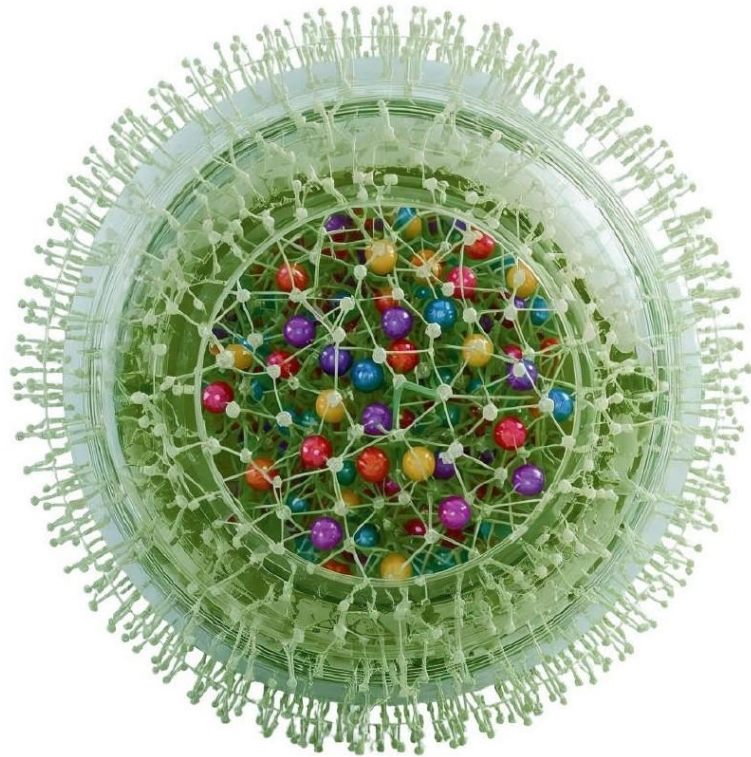


- Next-generation delivery system, **completely new** in the market
- **3 high performance peptides** in 1 green capsule
- **Hybrid between cap and liposome: marine-derived alginate capsule**, coated with a **lecithin lipid layer** for enhanced stability, penetration and delivery
- **Gradual release** of the encapsulated peptides offers **long-lasting effects**:
  - **Boosting of collagen and elastin synthesis**
  - **Support of skin repair**
  - **Restoring of youthful firmness and radiance**

The active ingredient **Glorydermal® Lifteivity** ideally matches the **longevity approach**, combining **lifting properties** with **long-lasting efficacy** to **protect the beauty of your skin**.



# Glorydermal® Liftevity



# GloryDermal

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