



DermCom  
Cell2cell communication  
for skin matrix repair



# DermCom

## Cell2cell communication for skin matrix repair

### **A Flower Bulb Extract to Improve Cell-Cell Communication**

Based on a *Crocus chrysanthus* bulb extract, DermCom can reverse the aging process by stimulating the communication between skin cells.

The crocus is a universal symbol of rejuvenation and youthfulness. *Crocus chrysanthus* "Cream Beauty" is a beautiful variety with creamy-colored petals. Bulbs are plant parts specializing in the storage of nutrients and so are an interesting source of active ingredients for cosmetics.

With age, the communication process between skin cells, which is mediated by growth factors, is reduced. This strongly affects the extracellular matrix (ECM), the structural network of the skin and leads to a reduction of its firmness, elasticity and density.

DermCom was shown, in a series of tests, to stimulate keratinocytes to secrete growth factors that could enhance the synthesis of collagen and elastin in the dermis. This effect on fibroblasts was comparable to the one of the transforming growth factor (TGF- $\beta$ ), a natural growth factor involved in ECM synthesis.

Clinical studies confirmed this result after only 2 weeks' treatment:

- skin firmness was greatly improved
- the collagen and elastin contents in the skin were both increased.

In a study involving volunteers with stretch marks, a cream with DermCom visibly reduced redness and increased lightness in stretch mark areas.

DermCom can thus rejuvenate the skin matrix thanks to its growth factor-like activity and so preserve and improve the biomechanical properties of the skin as well as its quality.

### **DermCom**

- Boosts collagen and elastin production
- Stimulates natural growth factors of the skin
- Renews the skin's resilience and firmness
- Reverses aging processes
- Rejuvenates skin texture
- Visibly reduces stretch marks

### **Applications**

- Collagen and elastin boosters
- Firming and lifting products
- Repair formulas
- Stretch mark creams
- Intense anti-aging treatments

### **Formulating with DermCom**

- Recommended use level: 0.4–2%
- Incorporation: Dissolve DermCom into the aqueous phase or add pre-solved (DermCom is easily soluble in water at room temperature) during the cooling phase (< 60 °C).
- Thermostability: Temperatures of up to 60 °C for a short time do not affect the stability of DermCom.

### **INCI (EU/PCPC) Declaration**

*Crocus Chrysanthus* Bulb Extract (and) *Acacia Senegal* Gum (and) Aqua/Water