

Cellular Regeneration

Discovery

Effects

- Promotes cellular regeneration by stimulating the proliferation of fibroblast cells.
- Reduces wrinkles by stimulating collagen and elastin synthesis.
- Increases skin moisture level, elasticity and microcirculation and prevents sagging.
- Prevents the formation of spots on the skin by balancing melanin synthesis.
- Shows wound healing activity thanks to the specific centelloid

compounds it contains.

Origin

Developed from Centella asiatica (Gotu Kola) stem cells using ProliCell® Technology.



What is ProliCell[®] Technology?

ProliCell[®] Technology enables to benefit the effects of plant stem cells and small RNAs in their vesicles. **Effect Mechanism**

ProliCell® Centella contains enriched stem cell components and stem cell specific exogenous small RNAs thanks to the elicitor application.

What is the effect of small RNA?

Small RNAs, including miRNA are non-coding RNA fragments, which regulate the post-transcriptional silencing of target genes. Plant small RNAs may exert similar functions in both human and plant. This provides exogenous plant small RNAs to play a key role on the physiological function of the human body, including the skin.



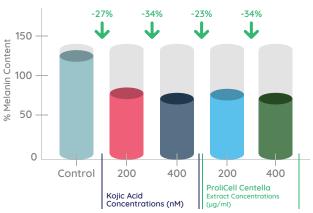
Activity Tests

In vitro Tests

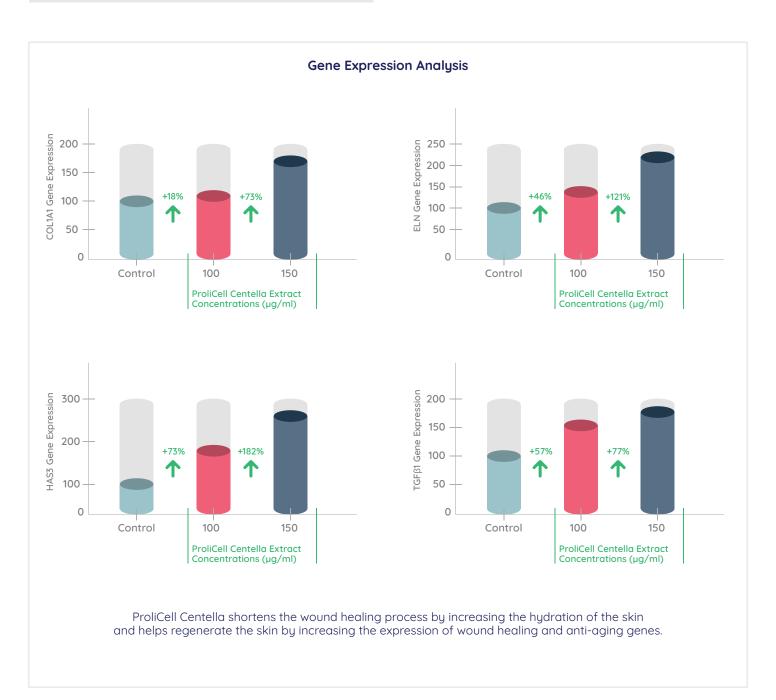
Cell Line: Human normal fibroblast, human normal keratinocyte, mouse melanoma cells Test Components: 100, 150 and 200 μ g/ml ProliCell Centella extract Parameters: Analysis of COL1A1, HAS3, Elastin and TGF β 1 genes by RT-qPCR, Evaluation of melanin content with in vitro melanin content determination test, Evaluation of wound healing efficiency with the Scratch Assay method

For gene expression analyses, human normal fibroblast cells were incubated with ProliCell Centella concentrations for 24 hours.

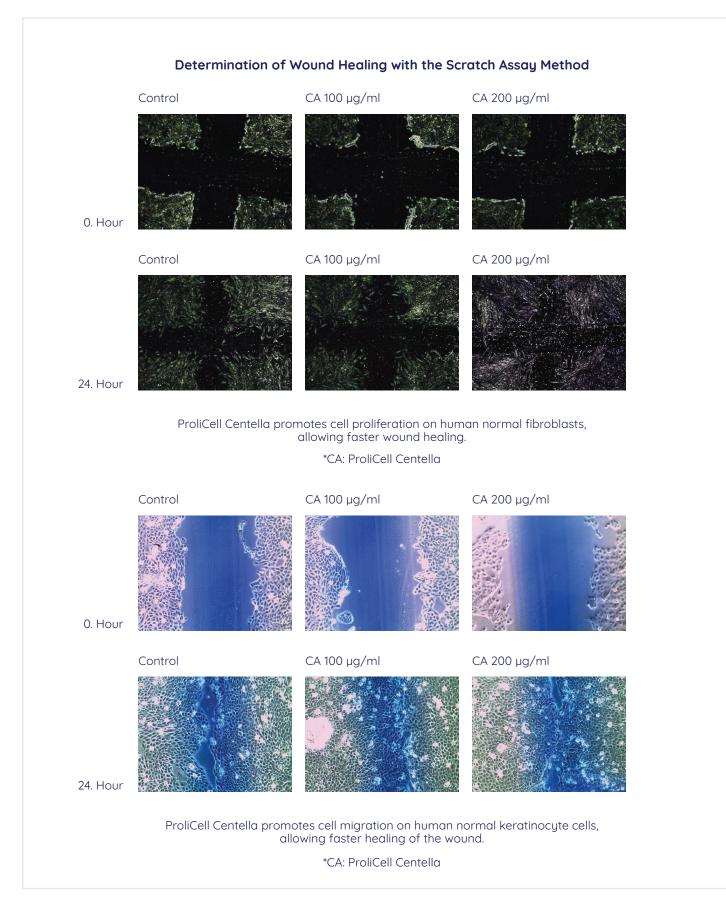
Determination of Melanin Suppression Efficacy

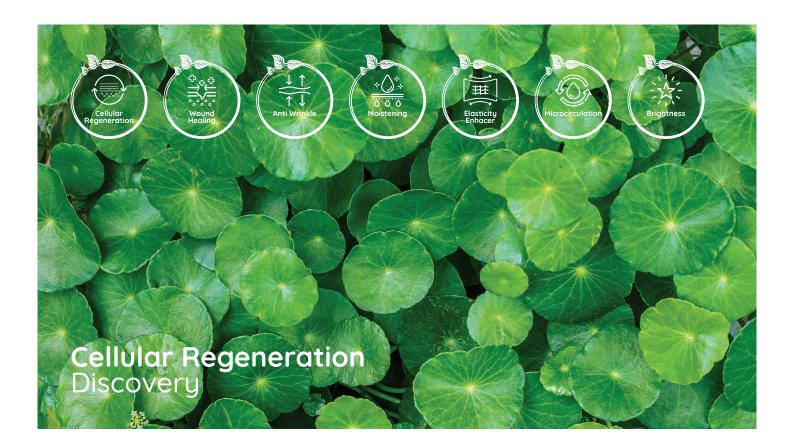


ProliCell Centella suppresses excessive melanin synthesis and reduces skin blemishes.



Activity Tests





Effect Mechanism

- Anti-aging
- Anti-blemish
- Wound healer





Cosmetic Uses

- Anti-blemish
- (Face and Skin Care Products)
- Anti-aging Products
- (Face and Skin Care Products)



Features



Origin: Herbal Appearance: Viscous cell lysate suspension Color: Yellow-orange Fragrance: Characteristic Usage: Add below 40°C in cold-hot processes.

ACTV

INCI Name: Glycerin, Centella asiatica Callus Extract, Xanthan Gum. Usage rate: 2-5% Solubility: Water-soluble Preservative: No preservative pH: 4.0-7.0





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