

Epidermal cohesion for a strengthened skin barrier

STEMCEM QUILLAY



STEMCEM QUILLAY is a **stem cell extract** derived from *Quillaja saponaria*, an endemic species native to central Chile characterized by its **resistance to very extreme conditions** (very dry environments, extreme temperatures and poor soils). The remarkable properties of this **iconic tree** have been treasured since the 15th century by the Mapuche people.

This powerful ingredient plays a crucial role in **maintaining the skin's health** by promoting essential bonding proteins: **filaggrins**.

These proteins naturally occur in the skin and are **responsible for keeping the skin barrier sealed and protected**, preventing moisture loss and blocking out irritants and environmental aggressors.



IH-786/2.1/M/42



INCI

Quillaja saponaria Callus Extract,
Glycerin, Pentylene Glycol

DOSE OF USE

1-2%

SOLUBILITY

Hydrosoluble

EFFICACY TESTS

EX VIVO

1% StemCem Quillay

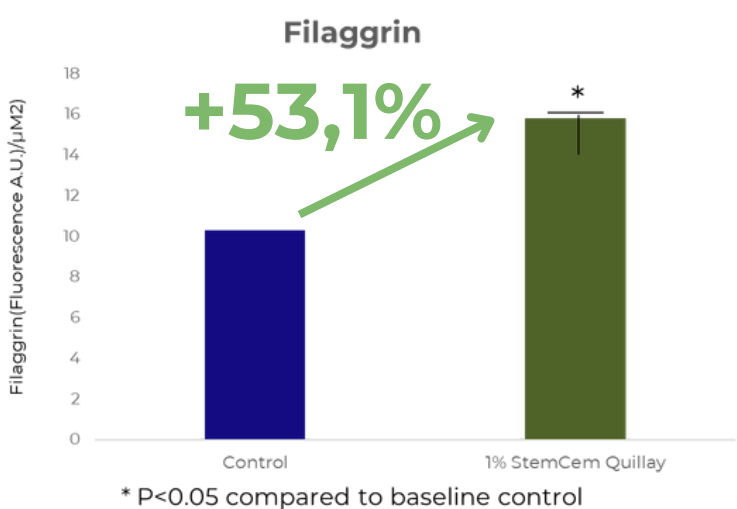
Skin Explants



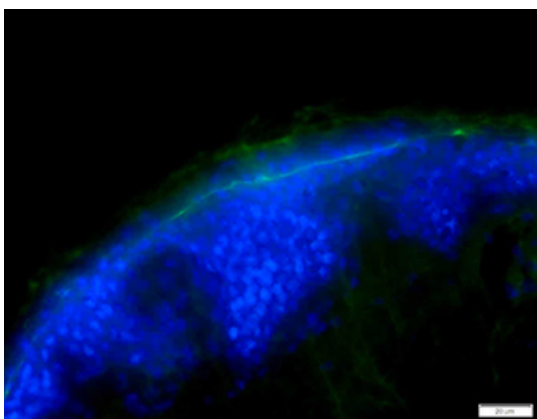
4 days

EVALUATION OF
FILAGGRIN SYNTHESIS

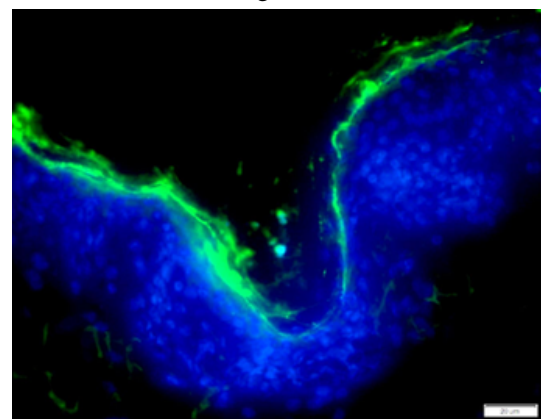
Filaggrin, found in the deeper layers of the epidermis, plays a **crucial role in skin barrier formation by promoting keratinocyte aggregation** and facilitating epidermal cell cohesion.



BASAL CONTROL



1% STEMCEM QUILLAY



Fluorescence micrographic evaluation of Filaggrin production in cultured human skin fragments incubated with the tested product.

IN VIVO

2% StemCem Quillay



21 volunteers



56 days

EVALUATION OF
SKIN FIRMNESS AND DENSITY

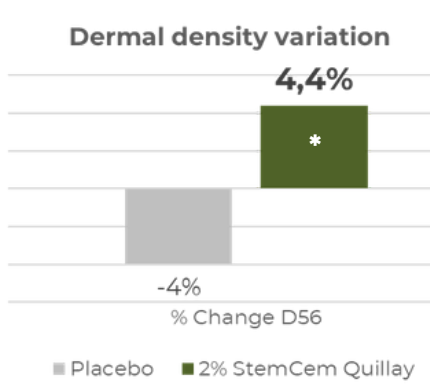
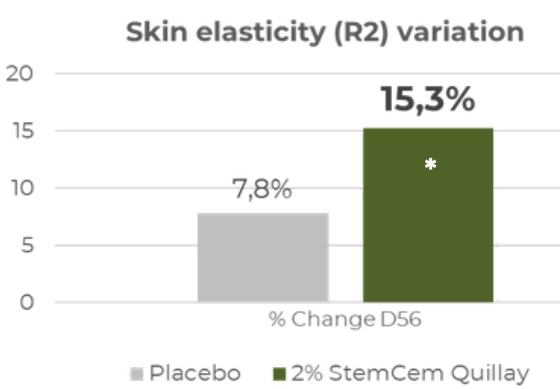
The efficacy of the products was assessed:

• Skin firmness and elasticity:

Cutometer® (Cutometer® dual MPA 580)

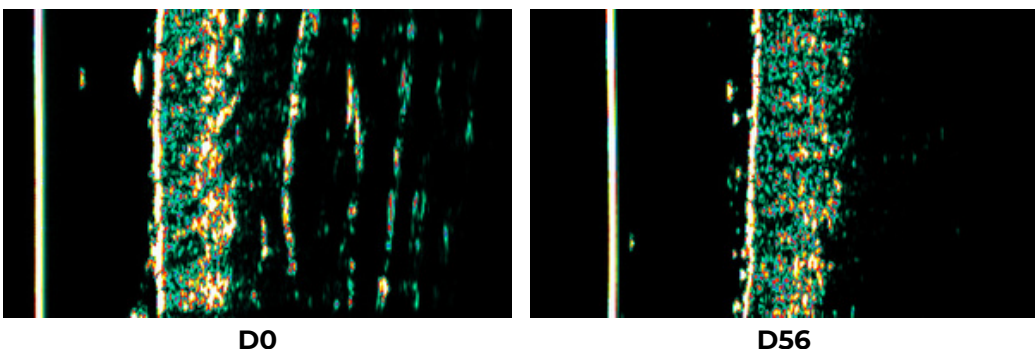
• Dermal density:

Ultrasonography:
(Dermascan C® system, Cortex technology)



(*: p < 0,05; N.S.: Non-significant).

Ultrasonography images of product 2% StemCem Quillay application area (malar area). Subject #01.

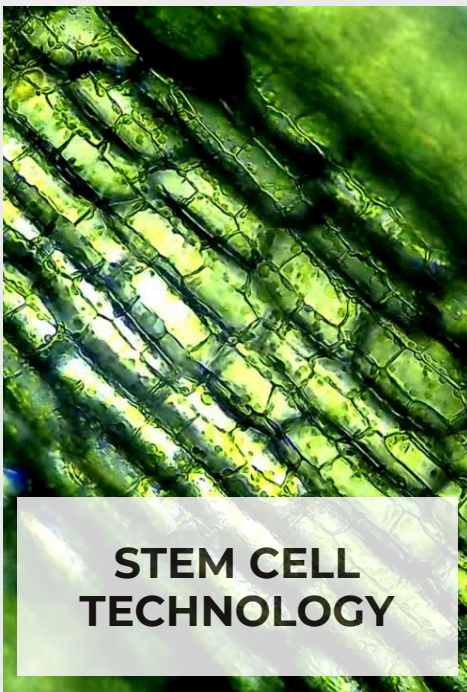


On the whole, the results **indicated that the product StemCem Quillay 2%** has a significant **firming effect on the skin, thus improving the elasticity and appearance of the skin.**

Marketing claims



EPIDERMAL
COHESION



STEM CELL
TECHNOLOGY



IMPROVES SKIN
ELASTICITY



PROTECTION OF
THE BARRIER
FUNCTION



PRESERVES THE
SKIN'S INTEGRITY



MORE
INFORMATION