



GREEN MOUNTAIN
BIOTECH

Botaniplex™ CALM 4

Keep CALM, love your
skin whatever your age!



Rheum palmatum
(Rhubarb)



Glycyrrhiza glabra
(Licorice)



Scutellaria baicalensis
(Skullcap)



Cnidium monnieri
(Snowparsley)



AGING SKIN & BOTANIPLEX™ CALM 4

As people grow older, the skin undergoes significant changes, leading to common concerns such as thinning of the epidermis, the appearance of pigmented “age spots,” and a reduction in connective tissue strength and elasticity. These transformations contribute to visible signs of aging, including wrinkling, fragility, dryness, pigmentation, dermatitis, and slower wound healing.

Botaniplex™ CALM 4 is specially crafted to support skin through this complex aging process, addressing both intrinsic factors like inflammation and extrinsic factors such as mechanical stress, sunlight, pollutants, and pathogens. With its targeted formulation, **Botaniplex™ CALM 4** promotes healthier, nourished skin, helping you embrace well-aging with confidence.

Enhance the look of youthful skin



Reduces
Wrinkles



Restores
Moisture

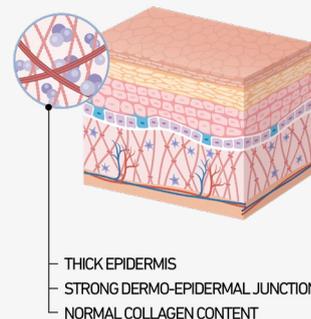


Brightens the
skin tone

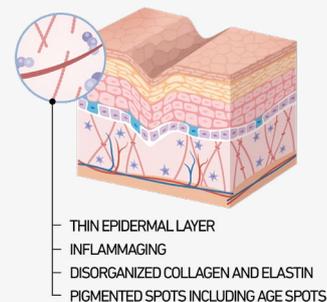
INCI:

Glycerin, Water, *Rheum palmatum* root extract, *Scutellaria baicalensis* root extract, *Glycyrrhiza glabra* (Licorice) root extract, *Cnidium monnieri* fruit extract.

Young Skin



Older Skin

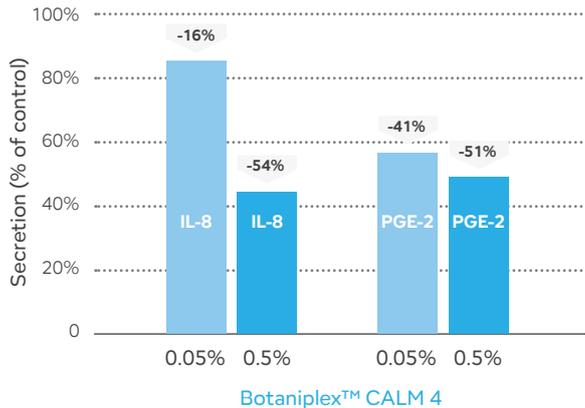


IMMUNE SUPPORT

In vitro efficacy

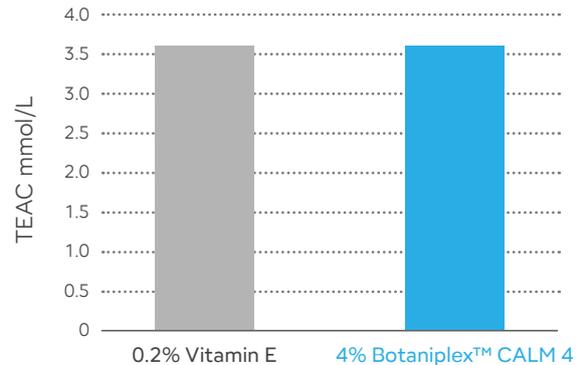
Anti-inflammatory

Botaniplex™ CALM 4 decreases secretion of pro-inflammatory mediators from keratinocytes subjected to UVB to provoke the release of inflammatory cytokines.



Anti-oxidative

Antioxidative capacity of **4% Botaniplex™ CALM 4** is equivalent to 0.2% Vitamin E used in cosmetic products.



AGING SIGNS

In vivo efficacy



Objective:

Efficacy evaluation of face gel containing **4% Botaniplex™ CALM 4** to reduce aging related appearance of the skin

Design:

Interventional, double-blind, randomized, placebo-controlled study

Study Population:

Adult subjects with aging skin
Treatment: N = 22
Placebo: N = 20

Application:

Apply face gel twice a day
Study duration – 60 days

Measurement:

Dermatological assessment (PGA - Physician Global Assessment, pigmentation score)
Instrumental measurements
Satisfaction questionnaire

SKIN INTEGRITY RETENTION



In-vivo – PGA

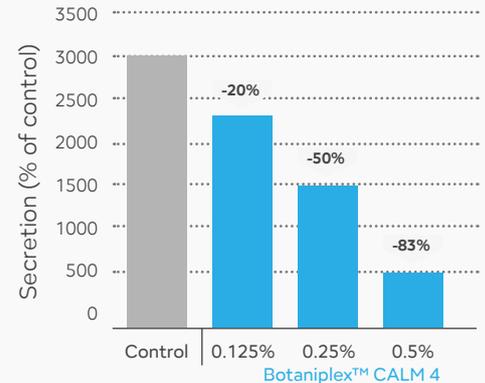
Botaniplex™ CALM 4

demonstrates a significant improvement in the appearance of both coarse and fine wrinkles, as well as the roughness of the skin surface when compared to the placebo, as assessed by a dermatologist.

In-vivo – Instrumental

Visioscan's assessment of wrinkles in the Crow's feet area reveals that **Botaniplex™ CALM 4** results in wrinkles' reduction compared to the placebo.

In-vitro efficacy - MMP-1

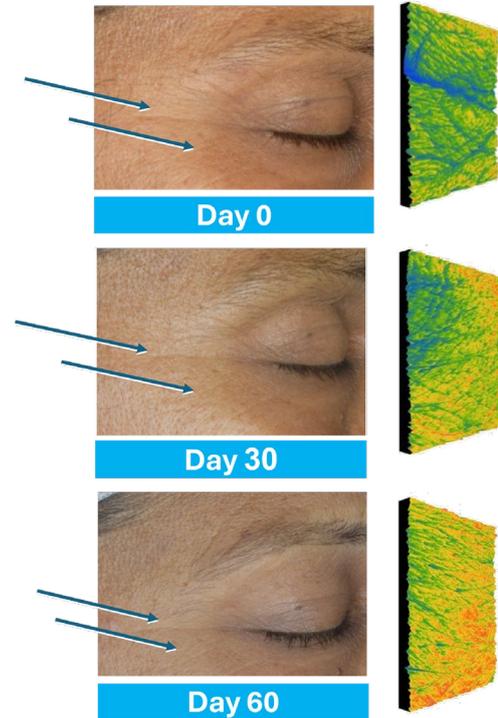


Botaniplex™ CALM 4 inhibits MMP-1 collagenase and as a result helps to preserve skin structure.

SKIN INTEGRITY RETENTION

In-vivo efficacy - Photos

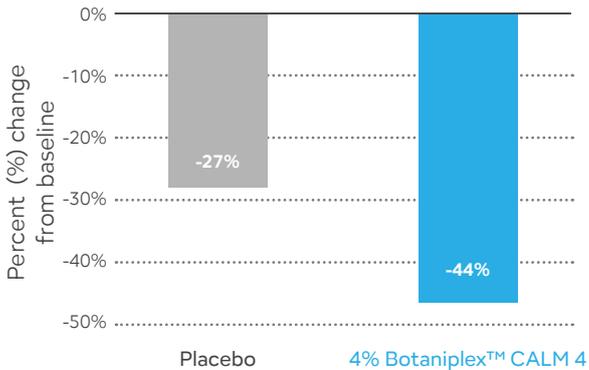
Image-Pro Software Analysis of Area and Intensity of Wrinkles and facial photographs demonstrate a visible reduction in wrinkles following the treatment with **Botaniplex™ CALM 4** gel.



MOISTURE PRESERVATION

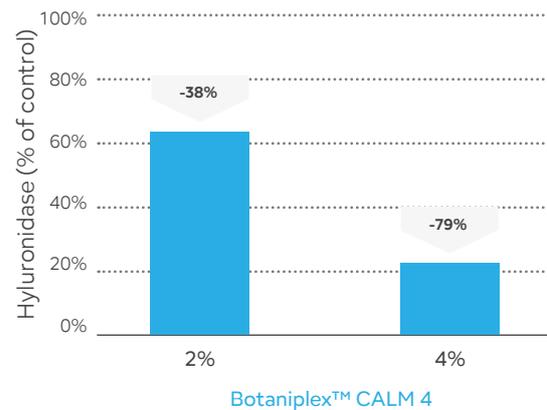
In-vivo efficacy - PGA

Botaniplex™ CALM 4 enhances skin moisture, leading to significant dryness reduction compared to the placebo.

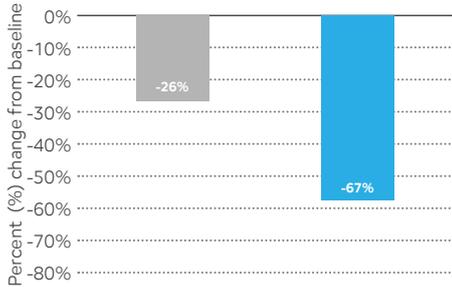


In-vitro efficacy - Hyaluronidase

Botaniplex™ CALM 4 inhibits hyaluronidase and helps to keep the skin moist and supple.

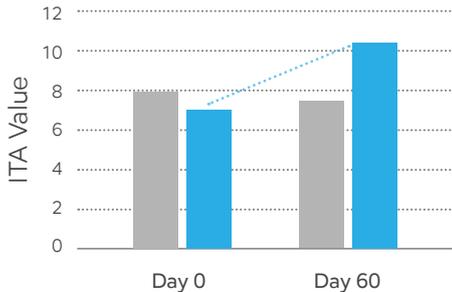


LIGHTENING



In-vivo – Dermatologist

Assessing pigmentation using a pigmentation scoring scale, a notable improvement was observed in the spot brightness following the application of **Botaniplex™ CALM 4** as compared to placebo.



In-vivo – Instrumental

Skin Colorimeter CL-400 analysis of facial skin tone, based on ITA angel parameter, indicates that **Botaniplex™ CALM 4** leads to a significant improvement in skin color compared to the placebo.

■ Placebo ■ 4% Botaniplex™ CALM 4

In-vitro efficacy - Tyrosinase

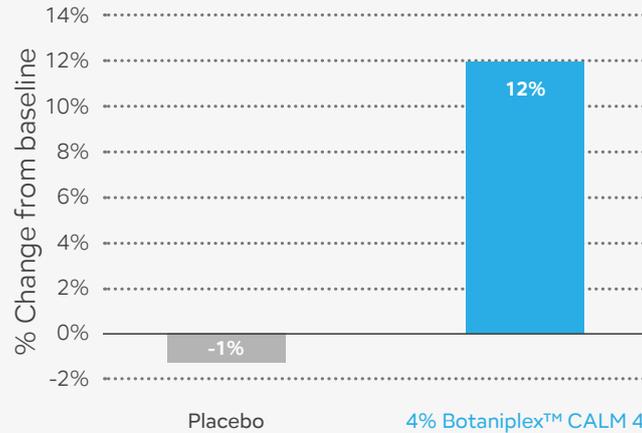


Botaniplex™ CALM 4 is a strong inhibitor of tyrosinase, involved in melanin synthesis

SKIN GLOSSINESS

In-vivo efficacy - Instrumental

The Skin Glossymeter GL200 assessment of facial skin radiance demonstrates that **Botaniplex™ CALM 4** results in a notable enhancement in skin gloss when compared to the placebo.



SATISFACTION

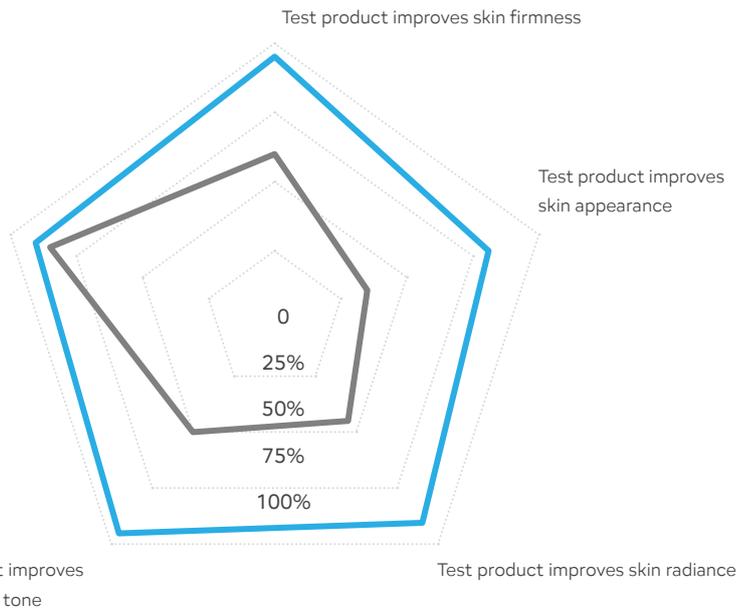
In-vivo efficacy - Questionnaires

Volunteers that used **Botaniplex™ CALM 4** are highly satisfied with treatment as compared to volunteers treated with placebo.

■ 4% Botaniplex™ CALM 4

■ Placebo

Test product decreases blemishes and removes dark skin patches



TECHNICAL INFORMATION



Suggested use level: 1 - 4%

Formulation: Water miscible
Incorporation during the cooling phase (<40°C).
Temperatures of up to 60°C for a short time does
not affect the stability

MARKETING CLAIMS



Skin integrity retention



Moisture preservation



Fine line & wrinkle reduction



Anti – pigmentation



Assists in redness reduction



APPLICATIONS



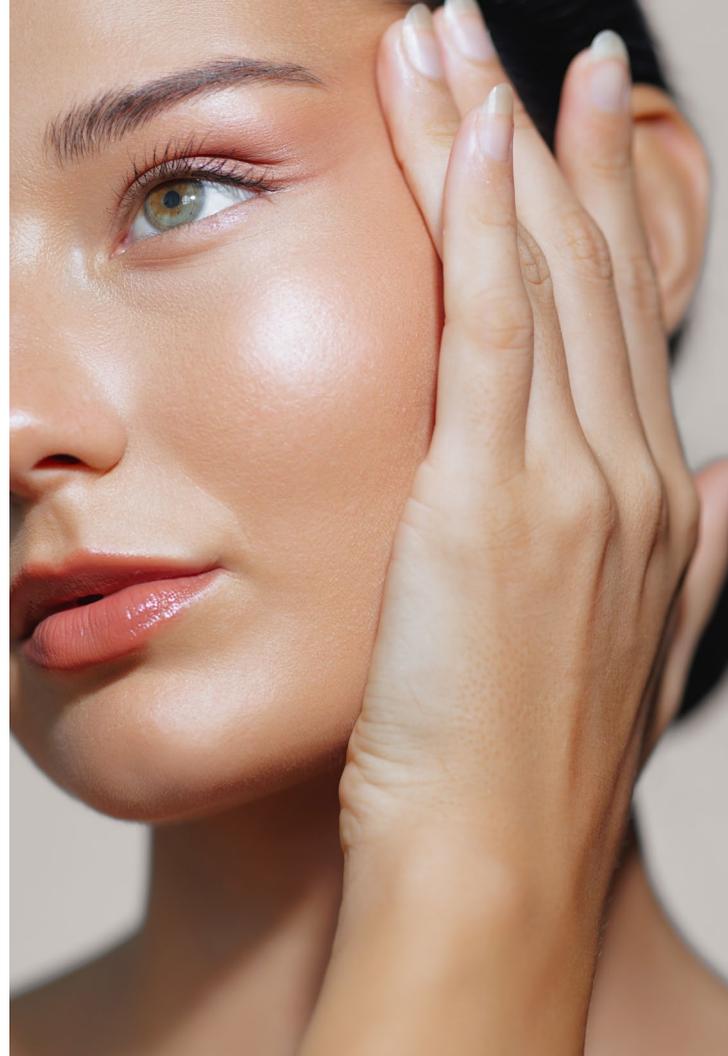
Face & Body Care:
Moisturizing products



Face & Body Care:
Anti aging products



Skin Care:
After sun products



BENEFITS

Aqueous herbal extracts

100% natural origin

Preservative-free

Easy to formulate

High quality

Established safety

Proven efficacy

Sustainability

COSMOS approved

ISO 9001

China compliant



THE BOTANIPLX™ SYSTEMS



Botaniplx™ BALANCE SC

- Improves microbiome balance
- Assists in reducing redness and irritation
- Regulates sebum secretion



Botaniplx™ BALANCE SA

- Improves microbiome balance
- Assists in reducing redness and irritation
- Stimulates the skin's natural defense mechanisms



Botaniplx™ GUARD

- Relieves lip-sore discomfort
- Helps to relieve genital lesions
- Soothes redness, itchiness, and irritation
- Improves microbiome balance



Botaniplx™ CLEAR

- Clears spots, pimples and blemishes
- Reduces redness and irritation
- Improves microbiome balance



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