



GREEN MOUNTAIN
BIOTECH

Botaniplex™ BALANCE SA

Rebalancing the skin
inside & out



Sanguisorba officinalis
(Great Burnet)



Ailanthus altissima
(Tree of Heaven)

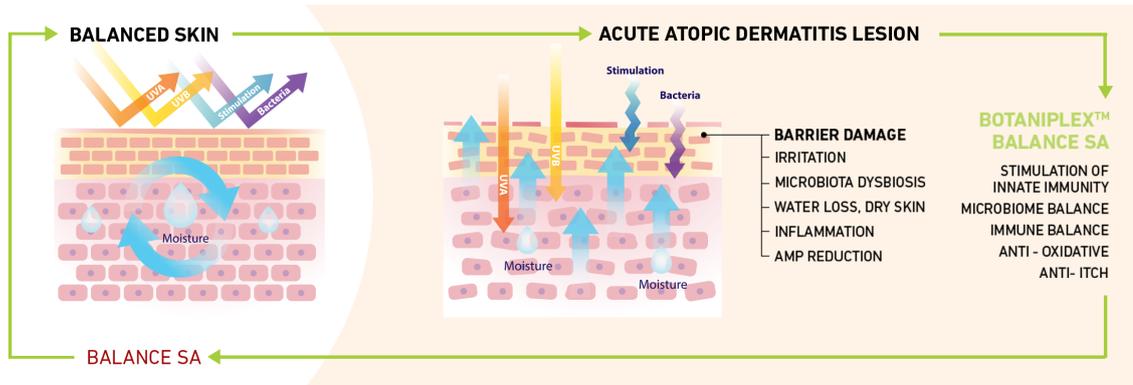


BOTANIPLEX™ BALANCE SA

Rebalancing compromised skin barrier

Dry skin often feels tight, rough, and prone to irritation, leading to discomfort and compromised skin barrier function. It can result in redness, flaking, and increased sensitivity, leaving the skin vulnerable to environmental stressors.

Botaniplex™ BALANCE SA addresses these issues by replenishing moisture, restoring the skin's natural balance, and supporting its barrier. Powered by a unique multifunctional, synergistic botanical blends.

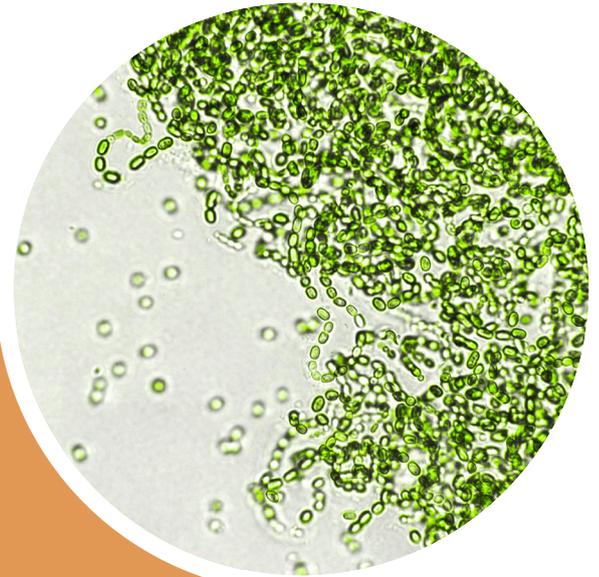


MICROBIOME BALANCE

Staphylococcus aureus vs.
Staphylococcus epidermidis

When the skin is damaged or infected, both immune dysregulation, and microbial dysbiosis that favors *Staphylococcus aureus* overgrowth, diminish the effectiveness of the skin barrier leading to itch, redness, swelling, scaling, dehydration and infection.

By reducing pathogen growth while at the same time promoting growth of the beneficial bacteria *Staphylococcus epidermidis*. Botaniplex™ BALANCE SA protects the skin and keeps it balanced and healthy.

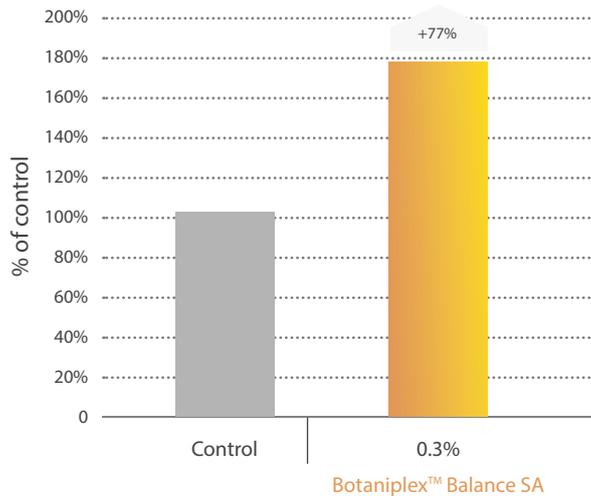


MICROBIOME BALANCE

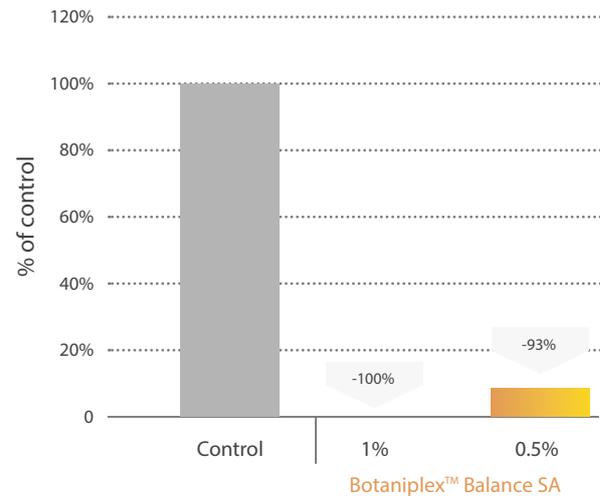
In-vitro efficacy



Prebiotic effect on commensal bacteria *S. epidermidis*



Antibiotic effect on pathogenic bacteria *S. aureus*



IMMUNE SYSTEM SUPPORT

The key to rejuvenating dry, irritated skin

Inflammation plays a critical role in dry skin conditions, as the immune system responds to the weakened skin barrier. This can lead to a cycle of irritation and further damage, making it harder for the skin to recover. Managing inflammation is essential for breaking this cycle and allowing the skin to heal properly.

Defensins, small antimicrobial peptides, play a vital role in protecting the skin by maintaining its barrier and defending against infections. Boosting defensin production enhances the skin's resilience and supports faster recovery. Interleukin-13 (IL-13) plays a key role in allergic inflammation and contributes to skin barrier dysfunction in atopic dermatitis. Inhibiting IL-13 reduces inflammation, restores the skin barrier, and boosts defensin levels, strengthening the skin's defense against infections. Additional players are antioxidants that not only protect against oxidative damage but also strengthen the skin's immune function by reducing inflammation, reinforcing the barrier.



IMMUNE SUPPORT

In vitro efficacy

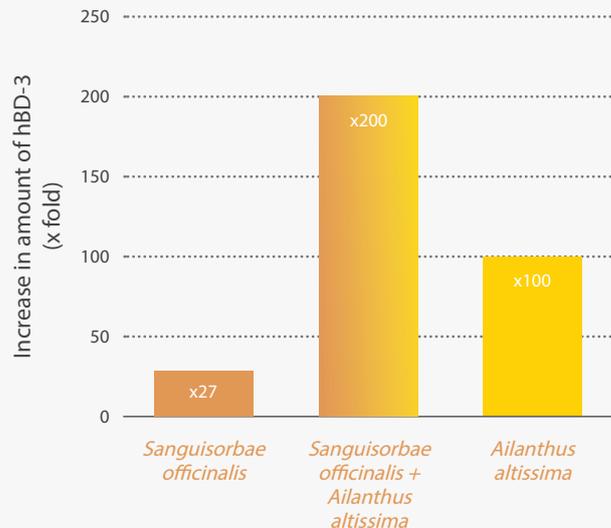
Synergistic defensin inhibition

Botaniplex™ BALANCE SA, a combination of *Ailanthus altissima* and *Sanguisorba officinalis*, synergistically stimulates human β -defensin (hBD-3) expression.

Anti-oxidant capacity

The DPPH assay measures the product's antioxidant ability (Trolox Equivalent Antioxidant Capacity - TEAC) by showing its capacity to neutralize free radicals.

Botaniplex™ BALANCE SA	0.2%	1%
TEAC (mmol/L)	0.1	0.49

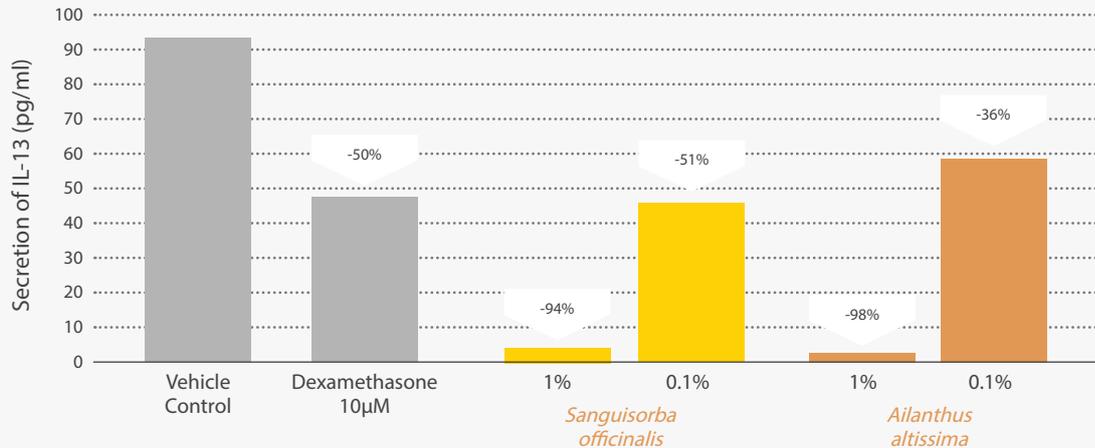


IMMUNE SUPPORT

In vitro efficacy

Cytokine inhibition

Both *Ailanthus altissima* and *Sanguisorba officinalis* extracts, which make up Botaniplex™ BALANCE SA, down-regulate IL-13 secretion, a key cytokine involved in the allergic inflammatory pathway.



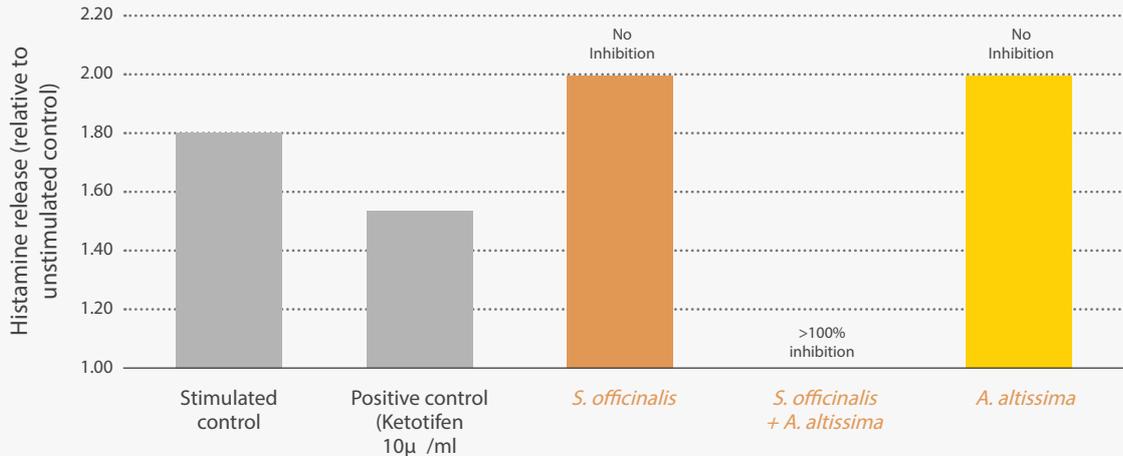
ANTI - ITCH EFFECT

In vitro efficacy

Synergistic histamine inhibition

Histamine is a chemical released by the immune system during allergic reactions, inflammation, or injury, and it triggers itch by activating nerve endings in the skin.

The combination of *Ailanthus altissima* and *Sanguisorba officinalis* extracts, which compose Botaniplex™ BALANCE SA, demonstrates synergistic inhibition of histamine release from mast cells.



MARKETING CLAIMS



Microbiome balance



Immune balance



Anti-oxidant



Soothing effect



APPLICATIONS



Skin care:
Cream and cleanser for dry skin and irritated skin (sensitive skin, atopic eczema, maskne)



Scalp care:
Shampoo and lotion for dry scalp



Baby skin care:
Cleanser and lotion



TECHNICAL INFORMATION



INCI: Glycerin, Water, *Ailanthus altissima* bark extract,
Sanguisorba officinalis root extract

Suggested use level: 0.2 – 1%

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

Patent: Granted: "Synergistic herbal compositions with prebiotic
properties for treatment of skin infections, allergies and
inflammation" US20180169171A1

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 BOTANIPILEX™ SYSTEMS



Botaniplex™ BALANCE SC

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



Botaniplex™ GUARD

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



Botaniplex™ CALM 4

- Reduces dryness, wrinkling and fragility in aging skin
- Helps slow skin pigmentation associated with aging
- Reduces and soothes redness and irritation



Botaniplex™ CLEAR

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



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