

ALPAFLOR® SCUTELLARIA CB

*Relieve urban stress for
incomparable skin comfort*



April 2025

Naturals | The science of nature

dsm-firmenich 

ALPAFLOR® SCUTELLARIA CB

ID card 5037863

INCI NAME: Scutellaria Alpina Flower/Leaf/Stem Extract (and glycerin, water, citric acid)

SUSTAINABILITY: Organic cultivation, ethical and traceable sourcing, supporting alpine biodiversity with low impact on the environment

TECHNOLOGY: Gentle ethanolic extraction of dried aerial part of alpine skullcap following green chemistry principles
Standardization in flavonoids (as scutellarin)
100% of natural origin according to ISO16128– no preservative

TECHNICAL:	pH of use: 3.5– 5.5	Use level: 1–3%	Solubility: Water
	Form: Liquid	Preservative: Free	Biodegradable: main components readily biodegradable

- BENEFITS:**
- Activates neurotransmitters: GABA_B receptors and β-endorphin to relieve unpleasant sensation of sensitive skin*
 - Reduces the oxidative stress generated by pollution and lifestyle*
 - Protects the skin barrier function under very polluted environment with better hydration vs placebo**
 - Alleviate skin dull complexion and lightens the skin (+21% vs placebo)**

REGISTRATION CERTIFICATION



ALPAFLOR® SCUTELLARIA CB

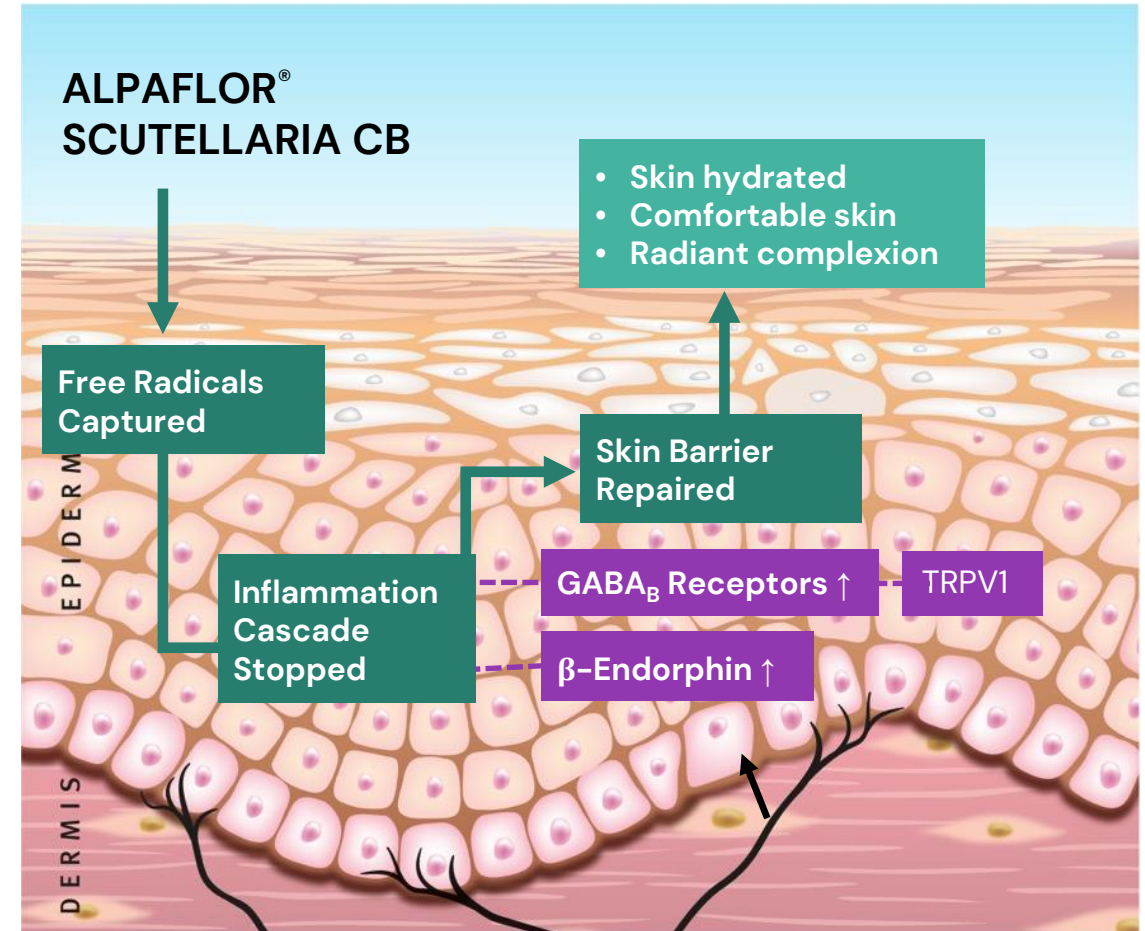
what's in it for the consumer

Unique product features

- Rare alpine Scutellaria alpina extract with **unique composition**
- **Sustainable**, organic and fair bioactive allowing transparency and traceability
- **Activates GABA_B receptors** (indirectly inhibiting TRPV1) and enhances production of β -endorphin
- **Strong free radical** scavenger (5x more powerful than green tea), protects *in vitro* the epidermal lipids peroxidation, **reduces the oxidative stress** generated by pollution or lifestyle
- Stimulates *in vitro* key genes involved in the skin barrier and detoxification for **fully protected skin**
- **Protects *in vivo* the skin barrier function** under very aggressive environment with better hydration compared with a placebo, **alleviating dull complexion**

Benefits

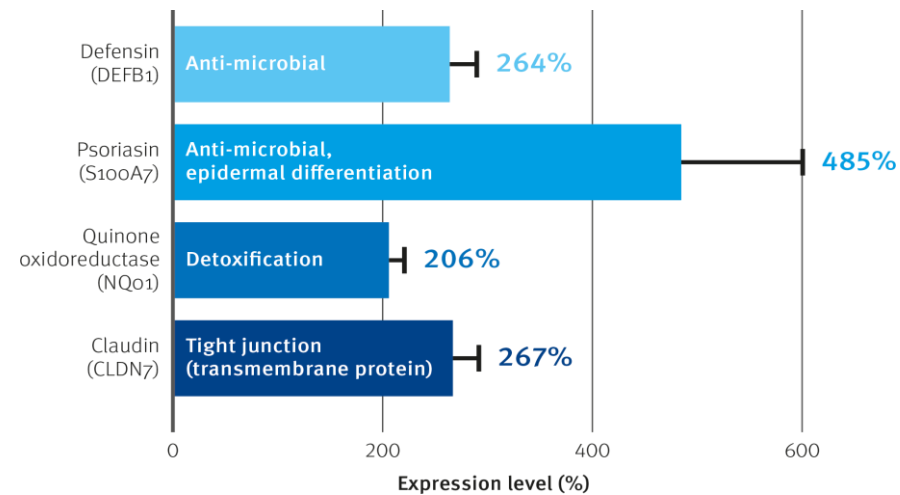
- **Relieves unpleasant sensations** and hydrates the skin for incomparable comfort
- **Keeps healthy looking skin** and improves skin appearance
- **Alleviates skin dull complexion**, lightens the skin
- Protects, **soothes** and **calms** irritated and sensitive skin



Strong anti-oxidant and barrier function improvement

Proves upregulation of barrier-relevant genes by ALPAFLOR® SCUTELLARIA CB

Induction of gene expression in human epidermal keratinocytes by 0.01% ALPAFLOR® SCUTELLARIA CB dry extract*



Beta-defensin and psoriasin: peptides, located in keratinocytes, that protect sensitive skin from infection and inflammation

Claudin-7: membrane protein in the tight junction that seals the space between the keratinocytes, assuring barrier function, reducing the infiltration of inflammatory cells.

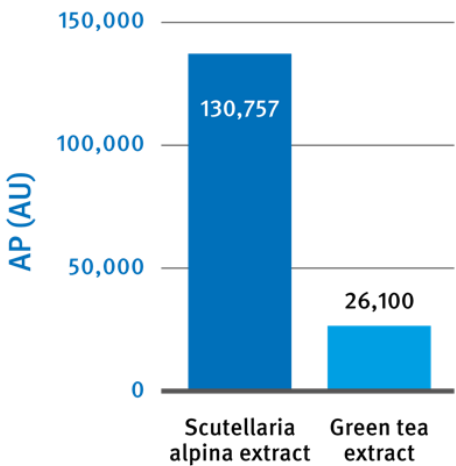
Quinone oxidoreductase: enzyme that captures superoxidase radicals and reduces oxidative stress.

Oxidative Stress

Inflammation Cascade

Skin Barrier Impaired

Anti-oxidative properties AP



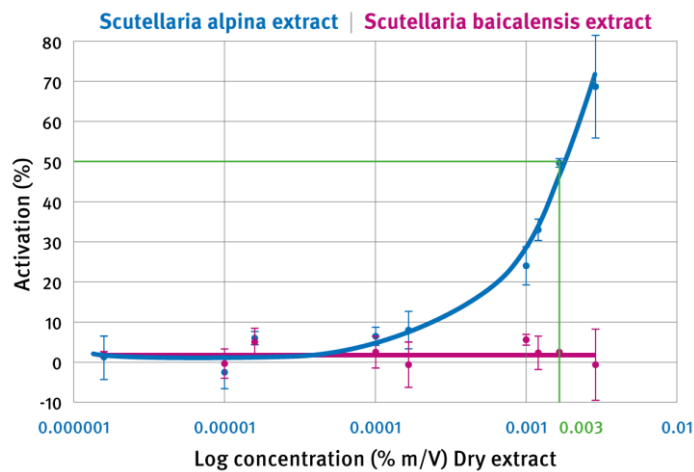
Anti-oxidative properties (AP) are measured from the number of captured free radicals (DPPH) per mg of active per minute, expressed as an anti-oxidative unit (AU) where 1 AU corresponds to the activity of a 1 ppm solution of pure vitamin C (ascorbic acid).

*One concentration with 2 different cell donors in triplicate

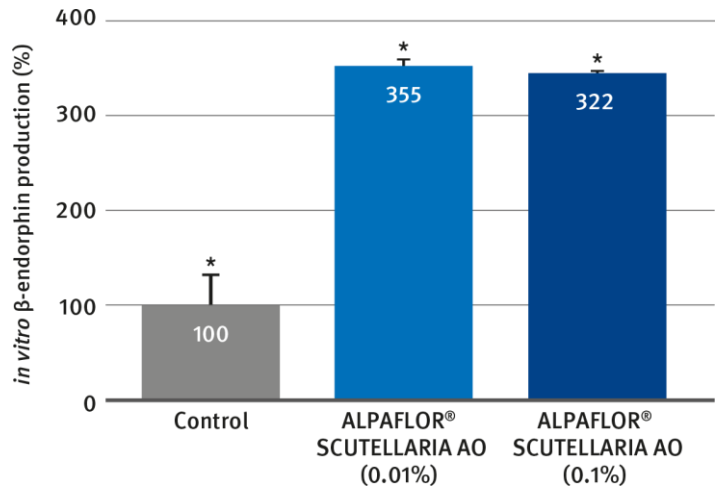
ALPAFLOR® SCUTELLARIA CB

β -Endorphin and GABA_B receptors: strong stimulation providing relaxing and calming actions on the skin

Stimulation of the GABA_B receptors *in vitro* at very low concentration



Strong stimulation of β -endorphin *in vitro* at 0.01% Scutellaria extract



ALPAFLOR® SCUTELLARIA CB stimulates the GABA_B receptors at very low concentration* (EC50 at 0.003%) while Scutellaria Baicalensis doesn't show any activity.

ALPAFLOR® SCUTELLARIA CB stimulates the production of β -endorphin by more than 300%*.

The modulation of these 2 neurotransmitters produces a relaxing, soothing and calming effect on the skin,

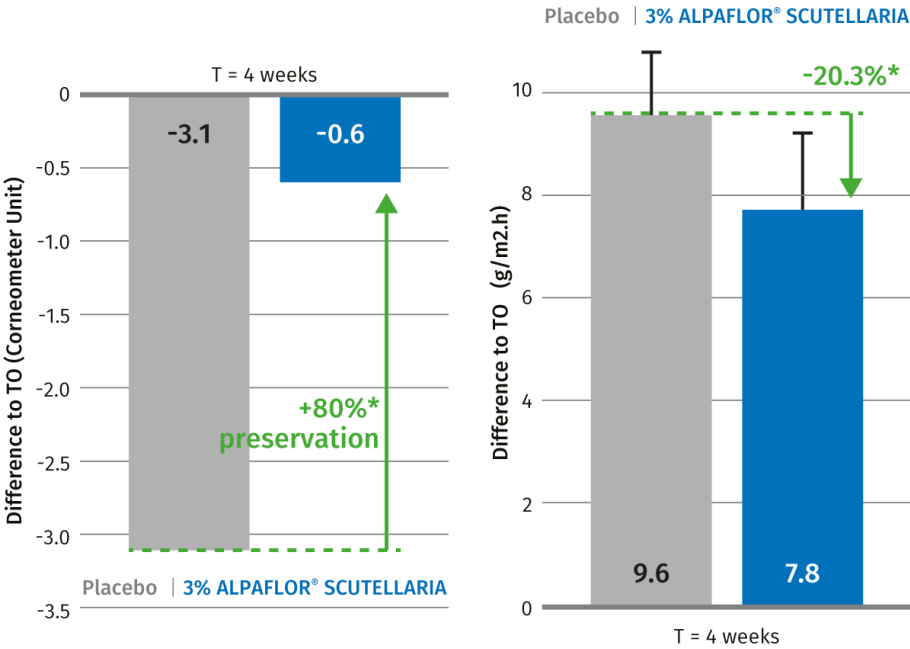
EC50: represents the concentration of Scutellaria alpina extract at which 50% of GABA_B receptors are stimulated

*: *in vitro*, 0.003% dry extract corresponds to 0.18% ALPAFLOR® SCUTELLARIA CB)



ALPAFLOR® SCUTELLARIA CB

Preserves skin hydration, mitigates the weakening of the skin barrier, relieves the dullness after strong environmental stress for 4 weeks



ALPAFLOR® SCUTELLARIA CB restores 80% of skin hydration and reduces TEWL by 20% compared to placebo

With **ALPAFLOR® SCUTELLARIA CB** the skin is 14% less yellow and 21% lighter compared to placebo

Study design: 36 Chinese female from 36 to 57 yo (phototype II to III), being at least 6 hours per day outside in Beijing. Half face application twice a day of 3% ALPAFLOR® SCUTELLARIA CB vs placebo

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