

Sweetone®

Imperfection corrector

Active ingredients from **biotechnological process**Extract of *Schizandra sphenanthera* berries
Plant sourcing from the central region of **China**,
Shaanxi province





Botanical information

Botanical name: Schizandra sphenanthera

Local names: Schizandre à fleurs orangées (France), southern schisandra, lemon wood (UK), wu wei zi (five flavour berry, China)

Family: Magnoliaceae

Characteristics: deciduous climbing vine that can reach 9 to 10

metres in height

Fruit: bunches of red berries similar to gooseberries, named 'five flavour berries' because of bitter, sweet, salty, sour and spicy flavours



Environment: wet, shady areas between 600 m and 3,000 m in altitude (woods, edges of forest areas, hedges, low walls), mild climates

Traditional uses: food (the berries are dried then infused) traditional chinese medicine (to relieve stress and fatigue and increase vitality; energizing/aphrodisiac effects)

Supply chain from China (central region)

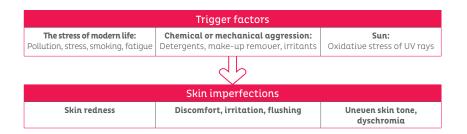
The Schizandra sphenanthera berries used to make SWEETONE® grow wild, without pesticides or fertilizers, and are harvested by hand according to best agricultural practices.

As a part of its commitment to fighting bio-piracy, Expanscience has documented the traditional knowledge associated with Schizandra sphenanthera berries to avoid any conflict with the use of biodiversity.

Dual action: soothing and unifying for a skin clear of imperfections

Perfect skin has become a universal quest. Today, women are looking for a miracle ingredient that can erase all the skin imperfections that appear due to the pressures of modern life (stress and fatigue) and environmental factors (pollution, tobacco, sun exposure, etc.). Sensitive skin concern, which affects two out of three women, also causes imperfections.

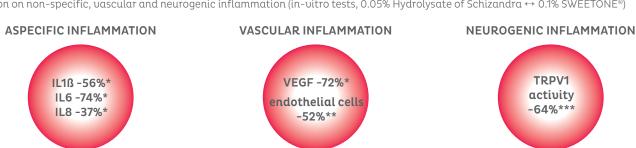
Skin imperfections include redness, small pimples, flushing, uneven skin tone, sun spots and discomfort, irritation or burning.



ffectiveness in-vitro

Soothing effect: SWEETONE® globally modulates inflammation

Action on non-specific, vascular and neurogenic inflammation (in-vitro tests, 0.05% Hydrolysate of Schizandra ↔ 0.1% SWEETONE®)



VEGF: Vascular Endothelial Growth Factor (stimulates the blood vessels formation)
TRPV1: Transient Receptor Potential Vanilloid (cause of discomfort and flushes sensations)

keratinocytes, PMA stress (Phorbol Myristate Acetate) * neurones/keratinocytes co-culture, capsaicin stress

SWEETONE® modulates non-specific and vascular inflammation to limit the proliferation of endothelial cells and reduces skin imperfections, such as redness.

By reducing neurogenic inflammation, SWEETONE® soothes the sensitive skins.

Unifying effect: SWEETONE® can modulate melanogenesis

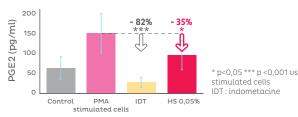
The effects of ultraviolet light, the ageing process and inflammatory stress can all result in pigmentation disorders. SWEETONE® is able to modulate these pigmentation disorders thanks to

- effect it has on limiting the synthesis of melanin: -25% (in-vitro test, melanocytes, 0.05% HS)
- effect it has on the dendricity of melanocytes: inhibits the release of PGE2 (-35%, in-vitro test, keratinocytes, 0.05%HS). PGE2, a lipid inflammation mediator, stimulates the dendricity of melanocytes, increasing the transfer of melanocyte melanin to the keratinocytes.

As such, SWEETONE® can potentially limit the spread of melanin in skin.



Melanin synthesis (melanocytes)



PGE2 release (Keratinocytes)



Thanks to this dual action, SWEETONE® modulates the appearance of spots and dyschromia, creating a unifying effect on the complexion.

Most non-homogenous complexions are caused by skin redness.

Using a randomised clinical trial, double-blind versus placebo, the benefits of SWEETONE® in reducing redness and creating a more uniform complexion is demonstrated. The assessment was carried out using an innovative technique that involved analysing images

from photos taken in cross polarised light.

60 women (average age 36), divided into 2 homogenous groups, with sensitive skin and established redness, applied a cream containing either 0.5% SWEETONE® or the placebo for a period of 56 days. The cream was applied twice per day.

% change / TO	SWEETONE®	Placebo
T 28 d	-41,35%	-13,10%
T 56 d	-14.30%	+30.30%

Ability to reduce redness: measurement of the surface area covered by the blood vessels

% change / T0	SWEETONE®	Placebo
T 28 d	-8,93%	+13,00%
T 56 d	-5,00%	+36,20%

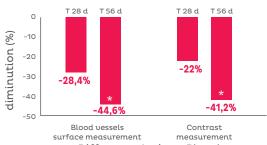
Ability to homogenise the complexion: measurement of contrast Reducing contrast results in a more uniform complexion.

Self-assessment (% of satisfaction after 56 days):

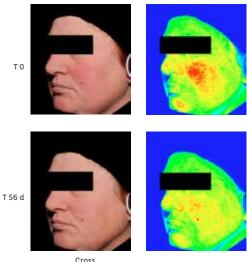
The results obtained are confirmed by the volunteers:

SWEETONE® limite l'apparition de nouvelles rougeurs diffuses ___83 % SWEETONE® diminue l'intensité des rougeurs diffuses -SWEETONE® limite l'apparition de nouvelles rougeurs localisées_69 %

SWEETONE® reduces skin redness and smoothes the complexion.



Difference Active - Placebo * p<0,05





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General information

- Description: fine orange-beige powder with a characteristic odour
- INCI name: Schisandra Sphenanthera Fruit Extract and Maltodextrin*

OR Saccharide Hydrolysate and Maltodextrin**

- *Listed in IECIC July 2014 (China)
- **Listed in IECIC July 2014 (China) & listed in CTFA 2004
- Origin: plant hydrolysate of Schizandra sphenanthera berries
- No residual protein
- Dose: 0.1% to 0.5%
- Solubility: hydrosoluble
- \bullet Recommended formulation temperature: add during cooling, at 35°C to 40°C
- pH of the aqueous solution (5% powder): 3.5 to 4.5
- \bullet Storage: between 15°C and 25°C, in an airtight sachet, protected from light and humidity
- Certification: certified for the formulation of Ecocertifiable finished products
- Patents: W02011012612, 30/07/2009 W02011012615, 30/07/2009 FR14 61 518, 26/11/2014

Process





Applications

Imperfection corrector (skin-tone unifying treatment, BB-CC cream)
Soothing, anti-redness treatment for sensitive skin
After-sun treatment

SWEETONE® in Pixel Perfect

Anti-Blemish Complex to soothe and unify the sensitive skin

Α	DEIONIZED WATER EDETA BD RHODICARE T CHLORPHENESIN BP 73 AQUEOUS SODIUM HYDROXIDE SOLUTION 10%	Aqua Disodium EDTA Xanthan Gum, Aqua Chlorphenesin, Aqua Aqua, Sodium Hydroxide	BASF SACI-CFPA AZELIS	73,55% 0,10% 0,20% 0,25% 1,30%
	SENSANOV WR	C20-22 Alkyl Phosphate, C20-22		
		Alcohols, Aqua	SEPPIC	3,00%
	LANETTE 16	Cetyl Alcohol	BASF	0,60%
	LANETTE O OR	Cetearyl Alcohol	BASF	0,70%
В	REFINED MACADAMIA OIL (BCE 1010)	Macadamia Integrifolia Seed Oil	BIOCOSMETHIC	6,00%
	TEGOSOFT OER	Oleyl Erucate	EVONIK GOLDSCHMIDT	5,00%
	XIAMETER® PMX-200	Dimethicone	UNIVAR	0,50%
	SILICONE FLUID 100CS			
	CELLULOBEADS USF	Cellulose, Aqua	DAITO KASEI	1,00%
С	PHENOXETOL	Phenoxyethanol	CLARIANT	0,80%
	DEIONIZED WATER	Aquα		2,00%
D	SWEETONE®	Schisandra Sphenanthera Fruit Extract and Maltodextrin	LABORATOIRES EXPANSCIENCE	0,50%
Е	PIXALIA® VITAMINE E ACETATE CARE AQUEOUS SODIUM HYDROXIDE SOLUTION 10%	Propanediol, Aqua, Rutin, Hydroxycinnamic Acid Tocopheryl Acetate Sodium Hydroxide, Aqua	LABORATOIRES EXPANSCIENCE BASF	3,00% 0,10% 0,20%
	PARFUM LOTUS BLANC SA FML00118	Fragrance	MLLE PARFUMETTE/ ACCORDS & PARF	1,20%

Formulation instructions on demand

www.expanscience-ingredients.com