



Natural Innovation for a Better Life

Strengthening
the skin's natural
protection
system

Going beyond skin soothing: building up the skin tolerance

SENSIA CAROTA[®] PRCF

A Pro-Tolerance relief for sensitive skin

- Targeting the silent **inflammation**
- **Strengthener** of skin's level of tolerance
- Stem cells **super-defense**
- Long-term **redness solution**
- **Age defying protector:** inflammation, free radicals, DNA oxidation



THE CONCEPT

Nowadays sensitive skin problems are an increasing global concern. People feel their skin is sensitive and to a great extent it is due to life in industrialized countries. **SENSIA CAROTA^{PRCF}** multi-active ingredient has been specifically developed for hypersensitive, reactive, irritable and intolerant skin. Targeting the silent inflammation and going beyond skin soothing, it manages to build up the skin tolerance.

THE PLANT

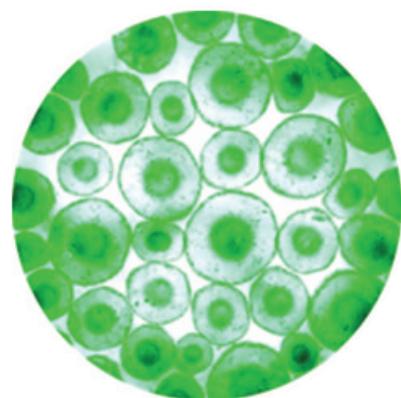
Orange carrots (*Daucus carota sativa*) have gained popularity in the recent decades due to the increased awareness of their nutritional value, because of their content in carotenes and as a source of vitamin A, as well as phenolic and flavonoid antioxidant compounds. It has been showed in a great number of studies that the characteristics and composition of the carrot show interesting properties for the treatment of sensitive skin conditions.

THE PRODUCT

SENSIA CAROTA^{PRCF} Is the concentrated metabolome of totipotent cells from *Daucus carota sativa* root. This unique product is cultivated in the presence of specific light conditions, while in normal conditions the root of the plant grows completely in the dark. Being exposed to light, the mechanisms to protect the cells from damage are induced, producing a very specific cocktail of bioactives. This includes polyphenolic antioxidant compounds, changes in the fatty acid production profiles to protect cell membranes, and phytosterols facing neurogenic inflammation, ending up in a specific PRCF: a Multi-active against daily environmental and chemical aggressors of threatened skin.

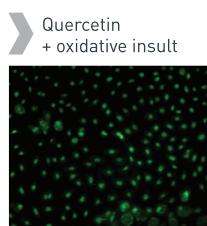
Did you know that plants protect themselves internally from extreme outside conditions, such as sunburn, dryness,...?

We can use this natural ability to strengthen our own protection systems.



IN VITRO EFFICACY

1. Antioxidant effect on Human Epidermal Progenitor Cells against Sun Radiation induced oxidative stress.

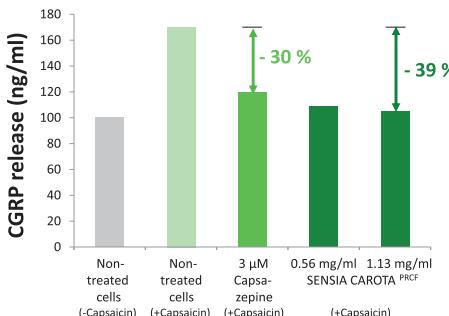


- Green fluorescence: DNA oxidation (CellROX® green).

Up to 38% of Protection Index* against oxidative stress after an oxidative insult (Tert-Butyl-Hydroperoxide (TBHP) - 200µM).

Antioxidant effect

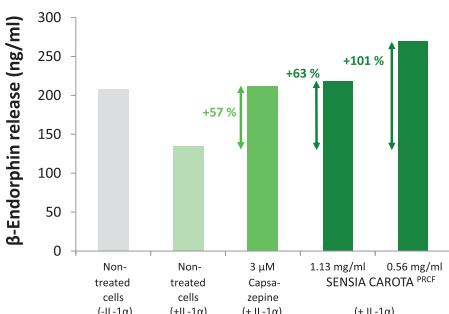
2. Inhibitory effect on the release of CGRP neuropeptide in Sensory Neurons culture.



Up to -39% of CGRP release induction after 24h pre-treatment, even higher than Capsazepine (-30%).

Inhibition of Neurogenic Inflammation

3. Induction of β-Endorphin release in Human Epidermal Progenitor Cells.



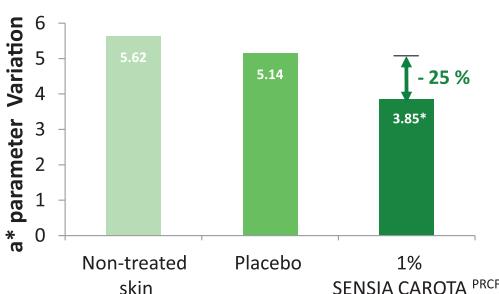
Up to 101% β-Endorphin release after induction of inflammation with IL-1α, at even higher level than the control Capsazepine (57%).

Restoring the wellbeing of epidermal cells

*Protection Index: reduction of ROS production compared to control (not treated + oxidative insult).

IN VIVO EFFICACY

- Single blind placebo-controlled study.
- 15 volunteers.
- Dosage at 1% - x2 applications/day - 3 weeks
- Caucasian female and male, 18-60 years (average 40.7 years).
- Sensitive skin panel (positive to stinging test).
- 3 areas -forearm (random): placebo, treatment (1%), untreated.
- Sodium Laureth Sulfate (SLS) 2% occlusive patches, 24h.



Up to 25% protection of sensitive stress from redness after chemical aggression

* SENSIA CAROTA PRCF vs Placebo	p < 0.01
SENSIA CAROTA PRCF vs Non-treated	p < 0.05
Placebo vs Non-treated	p > 0.05

Fast recovery of the erythema after chemical damage

APPLICATIONS

- Sensitive care lines.
- Pre-treatment for dermatological & aesthetical procedures (laser, chemical peels).
- Baby and elderly care.
- Delicate areas (eye contour, intimate hygiene, nappies ...)
- Wellbeing, detoxifying products.
- Outdoor-care and protection.
- Well-aging & Anti-aging treatments.

FORMULATION

This Serum is specially designed to improve the well-being of sensitive skins, thanks to the actives **Sensia Carota^{PRCF}** and **Turmeria Zen^{PRCF}**. It helps us fight the harmful effects that stress, lack of sleep or pollution have in our skin, protecting it and providing a necessary extra-hydration.

EMOTIONAL HYDRATION MANAGER. INFUSION SERUM FOR SENSITIVE SKIN

INCI	% (w/w)
A	
STEARETH-21	2.00
STEARETH-2	3.00
POTASSIUM CETYL PHOSPHATE	0.20
ISOHEXADECANE	8.00
CAPRYLIC/CAPRIC TRIGLYCERIDE	6.00
TRIETHYLHEXANOIN	4.00
PPG-15 STEARYL ETHER	2.00
CYCLOPENTASILOXANE	1.00
B	
WATER (AQUA)	61.50
GLYCERIN	3.00
BETAIN	2.00
XANTHAN GUM	0.30
MAGNESIUM ALUMINIUM SILICATE	2.00
C	
SENSIA CAROTA^{PRCF}	2.00
TURMERIA ZEN^{PRCF}	2.00
D	
PRESERVATIVE	1.00

TECHNICAL INFORMATION

INCI

Glycerin, Daucus Carota Sativa Root Cell Culture Lysate. China listed INCI also available. Preservative Free. Other preservative versions available.

DOSAGE

Suggested use level: 0.5 - 2%.

FORMULATION

Water and ethanol dispersible. Incorporation during the cooling phase (<40°C).

DECLARATIONS

Free of: GMO, BSE, listed CMR, VOC, heavy metals, listed allergens, parabens, phenoxyethanol, aflatoxins, pesticides and contaminants.