SEPICALM™ S
Gentle break, soothing happiness!

- All around protection against stress, a genuine feeling of well-being and skin comfort

**Mechanical stress**

SEPICALM™ S limits abrasion-induced erythema
Measured before and 30 min after application of the formulas on 5 volunteers (forearm)
- Colorimeter (parameter a*).
SEPICALM™ S formulated in a cream gel with Sepigel™ 305 (2%) base

*p < 0.05

**Solar stress**

SEPICALM™ S reduces induced actinic erythema
Measured after application of the formulas following irradiation (1 DEM) on 5 volunteers (back)
- Colorimeter (parameter a*).
SEPICALM™ S formulated in a cream gel with Sepigel™ 305 (2%) base

*p < 0.05

**Chemical stress**

SEPICALM™ S reduces the intensity of stinging
10 volunteers felt immediate relief after application (nasogenian furrows). Irritation induced by lactic acid.
SEPICALM™ S formulated in an emulsion with Montanov™ 68 (7%) and Sepigel™ 305 (2%) base

*p < 0.05

**Sensitive skin**

SEPICALM™ S encourages hydration immediately and for up to 5 hours on 10 volunteers (forearm)
- Colorimeter (parameter a*).
SEPICALM™ S formulated in an emulsion with Montanov™ 68 (7%) and Sepigel™ 305 (1%) base

*p < 0.05

**Identification**

- **Lipoaminoacid**: mineral enriched vectorized essential amino acids
- **INCI name**: Sodium Cocoyl Amino Acids & Sarcosine & Potassium Aspartate & Magnesium Aspartate
- **Amphiphilic structure**: excellent cutaneous bioaffinity
- **Water-dispersible**
- **Easy to use**: for all types of products (slightly colored, odorless)
- **Dose**: 3%
- **Preservative free grade**: SEPICALM™ S WP
MODE OF ACTION

1 Expression of genes causing inflammation is limited

SEPICALM™ S calms inflammation by targeting the core of the cells.

- Inhibits primary inflammatory response:
  - Limits the expression of the 2 subunits Fos (-21%) and Jun-B (-26%), components of the AP-1 key transcription factor which causes expression of inflammation genes.
  - Prevents amplification of the NF-κB-induced inflammatory response, transcription factor activated secondly by CCL-2 and ALOX.

Less AP-1 for HAPPY skin!

- Reduces the expression of pro-inflammatory substances:
  - cytokines (IL-6: -60%; TNF-α: -21%; CCL-2: -21%)
  - enzymes of the arachidonic acid metabolism (ALOX: -48%)
  - degradation enzymes of the extracellular matrix (MMP-3: -25%)

- Prevents significant increases in the production of cutaneous β-endorphins, without inducing production of TNF-α (inflammatory cytokine).

2 Production of inflammation mediators reduced

SEPICALM™ S reduces IL-6 and IL-8 secretion in stressed epidermis and dermis.

- Production of IL-6:
  - vs. stressed cells
  - vs. control

- Production of IL-8:
  - vs. stressed cells

3 Sensation of cutaneous biological well-being is stimulated

SEPICALM™ S significantly increases the production of cutaneous β-endorphins, without inducing production of TNF-α (inflammatory cytokine).

Vocabulary:
- a.m.: active matter
- c.p.: commercial product

NS: non-significant
LS: low significance
AP-1: Activator Protein-1

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The analytical specifications warranted are only those mentioned on the certificate of analysis supplied with each delivery of the product.

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