



ALPAFLOR® EDELWEISS extracts

Alpaflor 



**The beautiful star
for oxidative stressed skin**

ALPAFLOR® EDELWEISS extracts

EDELWEISS is not only the symbol of the Alps but has also become popular for its beauty, rarity and interesting properties as effective antioxidant.

ALPAFLOR® offers two standard types of *Leontopodium alpinum* extracts:

- **ALPAFLOR® EDELWEISS B.**

Product codes: 900-08 (Pentapharm); 50 3712 3 (DSM), preservative free, based on vegetal glycerin and organic ethanol.

- **ALPAFLOR® EDELWEISS EP**

Product codes: 900-13 (Pentapharm); 50 3717 4 (DSM), based on vegetal glycerin and preserved with Sodium Benzoate and Potassium Sorbate.

Customized Edelweiss extracts on request.

Properties

- Radical scavenging
- Antioxidant

Functions

- Antiaging
- Protecting

Cosmetic applications

- Antiaging formulations
- Sun and after-sun formulations
- Day care formulations, especially antioxidative treatments

Formulation

- ALPAFLOR® EDELWEISS B. is a clear to slightly opalescent, amber-to brown-colored liquid. It is water soluble and should be incorporated into the cosmetic formulation at temperatures <60°C. ALPAFLOR® EDELWEISS B. is stable in the pH range of 5.0 to 7.0. ALPAFLOR® EDELWEISS B. is compatible with ethanol in concentrations up to 80%.
- ALPAFLOR® EDELWEISS EP is a clear to slightly opalescent, amber-to brown-colored liquid. It is water soluble and should be incorporated into the cosmetic formulation at temperatures <60°C. ALPAFLOR® EDELWEISS EP is stable in the pH range of 3.0 to 6.0.

Suggested concentration

1–5% ALPAFLOR® EDELWEISS

INCI name

- ALPAFLOR® EDELWEISS B.: Glycerin, Water, Alcohol, Leontopodium Alpinum Extract
- ALPAFLOR® EDELWEISS EP: Glycerin, Water, Leontopodium Alpinum Extract

Efficacy tests

In vitro

The efficacy of ALPAFLOR® EDELWEISS extracts was demonstrated by 2 different *in vitro* tests.



ALPAFLOR® EDELWEISS B.

100% Natural Origin, 27.30% Organic Origin

ALPAFLOR® EDELWEISS EP

99.55% Natural Origin, 27.80% Organic Origin

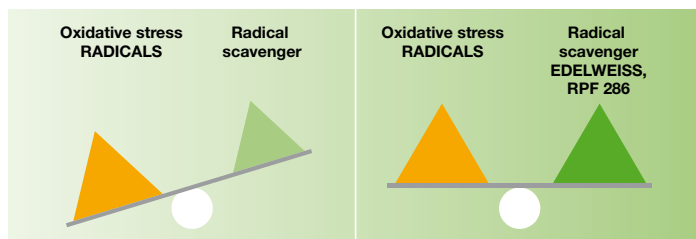
Raw material certified by Ecocert SAS F-32600 according to the Ecocert standards for Natural and Organic Cosmetics

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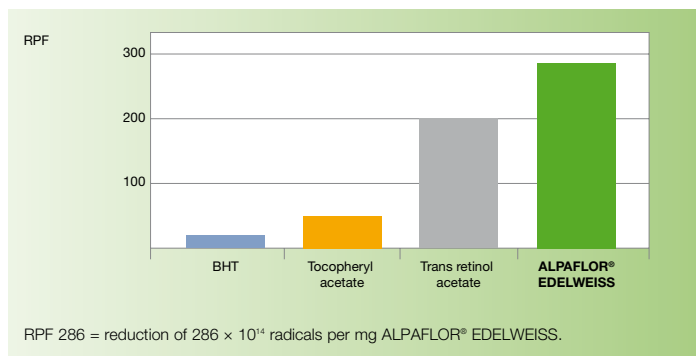
1. Radical scavenging properties

Free radicals are highly reactive molecules generated by the biochemical redox reactions that occur as part of normal cell metabolism, and by exposure to environmental factors such as UV light, smoke, pollutants and gamma radiation. Once formed, free radicals attack all structures (DNA, cell membranes, proteins) within the body, and are therefore implicated in numerous diseases and aging. To prevent damages caused by free radicals attacks, the use of antioxidants is necessary.

Redox – Balance of the skin

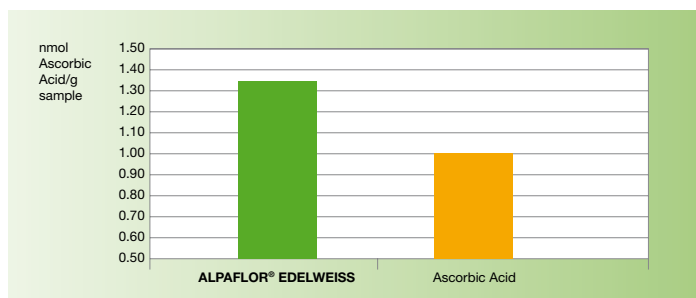


The **radical protection factor (RPF)** is a unit for the determination of the radical-scavenging activity of antioxidant products:



With an RPF 286 ALPAFLOR® EDELWEISS protects the skin before (prevention) and after (treatment) sun exposure. In combination with sun filters, the skin protection properties are enhanced.

2. Antioxidative properties



The antioxidative property of ALPAFLOR® EDELWEISS was measured using the ACW kit with the Photochem® equipment comparing it with the Ascorbic Acid antioxidant.

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