



PhytoCellTec®



# PhytoCellTec™ Alp Rose

## Charges skin stem cell resistance





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### **Stem Cells from an Alpine Flower to Enhance the Skin Barrier**

PhytoCellTec™ Alp Rose is a powder based on the stem cells of alpine rose leaves.

The alpine rose grows at very high altitudes. Its leaves have adapted to cold, dryness and UV, so that it can resist these harsh environmental conditions and fast changes.

The skin protects our body from the environment. To perform this barrier function efficiently, the epidermis is constantly renewed and repaired by the epidermal stem cells. But environmental changes and aging impair the skin barrier leading to a drier, more fragile skin and accelerated aging. Thus, the first strategy to enhance the skin barrier is to:

- preserve the activity of epidermal stem cells
- protect them from environmental stress.

Stem cells from alpine rose leaves were obtained using our PhytoCellTec™ technology and were then incorporated in a water-soluble powder. These Alp Rose stem cells contain special epigenetic factors and metabolites which are able to preserve the human skin stem cells' function.

Using a novel Progenitor Cell Targeting technology, PhytoCellTec™ Alp Rose was shown to:

- increase the vitality of epidermal stem cells by helping them to maintain their stem cell characteristics
- protect these precious cells against environmental stress.

By optimizing the potential of epidermal stem cells, PhytoCellTec™ Alp Rose improves epidermal regeneration and thus the quality of the skin barrier.

A clinical study performed in the Alps during winter confirmed the capacity of PhytoCellTec™ Alp Rose to reinforce the skin barrier and to reduce aging signs (wrinkles, redness, loss of radiance).

### **Claim Ideas for PhytoCellTec™ Alp Rose**

- Increases skin stem cell vitality
- Boosts epidermal regeneration
- Improves the skin barrier function
- Helps the skin to cope with climate changes

### **Applications**

- Advanced "stem cell cosmetic" formulas
- Face and body care to protect the most valuable skin cells, the stem cells, against environmental stress
- Every weather formulations

### **Formulating with PhytoCellTec™ Alp Rose**

- Recommended use level: 0.4–1 %
- Incorporation: Dissolve PhytoCellTec™ Alp Rose into the aqueous phase or add pre-solved, during the cooling phase (<60 °C).
- Thermostability: Temperatures of up to 60 °C for a short time do not affect the stability of PhytoCellTec™ Alp Rose.

### **INCI (EU/PCPC) Declaration**

Rhododendron Ferrugineum Leaf Cell Culture Extract (and) Isomalt (and) Lecithin (and) Sodium Benzoate (and) Lactic Acid (and) Aqua/Water

### **Additional Information**

- PhytoCellTec™ Alp Rose contains 50% of Alp Rose stem cell extract
- Phenoxyethanol-free