GIGAWHITE™ – a novel skin-lightener from alpine plants.

GIGAWHITE™ – preservative-free tyrosinase inhibitor

GIGAWHITE™ – novel skin brightener from 7 Swiss alpine plants (organically grown)

GIGAWHITE™ – lightening ingredient showing reduction of age-spots colour intensity and brightening activity on Asian skin.

Alpaflor

plant extracts from the swiss alps
**GIGAWHITE™**

**GIGAWHITE™** is a novel skin-lightener developed by Alpaflor Ltd from alpine plants that can brighten and even skin tone as well as reduce the color intensity of age-spots.

**Properties:**
- Tyrosinase inhibiting activity.

**GIGAWHITE™**’s development is the result of a research program in which about a hundred plants were selected for their tyrosinase-inhibiting capacity. Dopachrome formation was measured using a spectrophotometer. Of the hundred plants tested, 15 were selected for their *in-vitro* tyrosinase-inhibiting activity and were subsequently tested on cell cultures. In the cell cultures, seven of plants manifested greater tyrosinase-inhibiting activity. These were active not only on whole cells (with their membranes) but also on cell lysates (the membranes having been destroyed). It was this discovery that led ALPAFLOR to develop **GIGAWHITE™**. The plants were combined in a proprietary and synergistic ratio maximizing its activity and producing an even more effective compound. *In-vitro, ex-vivo and in-vivo* tests, **GIGAWHITE™** has an effect on the tyrosinase inhibiting mechanism involved in melanin biosynthesis.

**Functions:**
- Skin lightening activity.
- Reduction of age-spots color intensity.
- Evening of skin tone.

**Cosmetic applications:**
- All types of skin lightening/brighteners and anti age-spots formulations.

**Suggested concentration:**
3–5% **GIGAWHITE™**

**INCI Name:**
Water, Glycerin, Malva Sylvestris (Mallow) Extract, Mentha Piperita (Peppermint) Leaf Extract, Primula Veris Extract, Alchemilla Vulgaris Extract, Veronica Officinalis Extract, Melissa Officinalis Leaf Extract, Achillea Millefolium Extract

**Efficacy Tests:**

**In-vivo tests:**

1. **Measurement of the skin lightening activity**
   (change in skin color)

   ![Graph showing skin lightening activity improvement](image)

   - At a concentration of 5%, **GIGAWHITE™** shows significant lightening activity after 12 weeks of treatment (Asian skin) without observing any particular irritation.

2. **Measurement of the reduction of age-spots color intensity**

   ![Graph showing age-spots color intensity reduction](image)

   - At a concentration of 5% and after 12 weeks, **GIGAWHITE™** shows significant reduction of age-spots color intensity.