Skin Lightening Ingredient
Grapevine Root Vitisins

Tyrosinase Inhibition

Skin Lightening
Hyper-Pigmented Spot Reduction

IN USE CONCENTRATION: 1 to 3 %

VITISIN® is a Grapevine Root Extract from the wine region of Bordeaux.

Manufactured in France

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**Skin Lightening Effect of VITISIN®**

**Effect of Vitisin A and Vitisin B on Tyrosinase Activity**

- **Vitisin A and Vitisin B**, the active ingredients in VITISIN® are potent Tyrosinase Inhibitors.

**Effect of VITISIN® on Tyrosinase Activity**

- **VITISIN®** is a more potent Tyrosinase Inhibitor than Kojic Acid.

**CLINICAL STUDIES**

**Effect of “Crème à la VITISIN®” on Skin color parameters using Chromametry**

- 76% of the panelists noticed a lightening of their skin.

**Effect of “Crème à la VITISIN®” on Hyper-Pigmented Spots using Cross-Polarized Digital Photography**

- “Crème à la VITISIN®” induced a significant reduction in the color and size of Hyper-Pigmented Spots.

**Crème à la VITISIN®**

### Manufacturing Process

1. Prepare B1: Dissolve Trilon B in water. Disperse Pemulen TR1 and Carbopol Ultrez 10 while mixing vigorously and heat up to 70°C.
2. Prepare B2: Mix DUN DIOL with ZEMEA and then dissolve while mixing in DUB MUG, then CAE and Glucunolactone.
3. Add B2 to B1. When the phase is clear, add B3 while stirring and heat up to 70°C.
4. Prepare A1 by heating up to 80°C. When A1 is ready add A2.
5. Gradually add (A1+A2) to (B1+B2+B3) while stirring vigorously. Continue mixing for 10 minutes to make the emulsion. Neutralize with liquid Sodium Hydroxide and mix for 10 minutes.
6. Cool down to 40°C while stirring gently.
7. Add slowly VITISIN® while stirring. Mix until the emulsion is well homogenized. Check the ph (5 to 6).