

# **MOISTURISING AND ENERGIZING COMPLEX**

#### **Function and Characteristics:**

HYDRERGY is obtained by fermentation of Rhizobium melitoti and of a microalgae from Hawaian freshwater lakes.

#### Cosmetic interest (properties):

## **HYDRERGY** contains:

- polyglucuronate, whose structure is analogous to hyaluronic acid: to soften and moisturise skin;
- vitamins B1, B2, B12, and Niacin, to stimulate ATP production, boost the energy level of the skin and protect it from various forms of stress.

#### **Applications:**

All moisturising day treatments and for stimulating skin's energy.

Recommended use level: 3 to 5%

## CTFA / INCI name:

Water (Aqua) - Glycerin - Algae Extract - Polyglucuronic Acid

## Specifications:

**Appearance** : clear liquid Colour : yellow orange Odour : characteristic : 5.5 - 7.5 Ha Specific gravity (20°C) : 1.090 - 1.110 Refractive index (at 25°C) : 1.375 - 1.395 Water content (K. Fischer) : 55 - 65% Polyglucuronate content : 1.2 - 5 q/L : < 100 germs/g Bacteria Yeast and moulds : < 10 germs/g

Sederma patent: FR 2 768 335 - WO 99/13855

## **CLAIM SUBSTANTIATION**

#### IN VITRO

## Study of the stimulation of ATP synthesis by chemiluminescence:

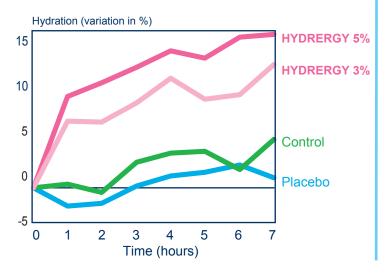
- the ATP level increases with the concentration of HYDRERGY.

## IN VIVO

## Study of cutaneous hydration with Corneometer:

11 volunteers / one application followed by 3 measurements every hour for 7 hours / gels containing 3% and 5% HYDRERGY compared to a placebo.

#### Increase of hydration with time



Study of cutaneous surface by scanning electron microscopy:

12 volunteers after a single application of a gel containing 5% HYDRERGY vs placebo on the forearm / DSquame® adhesif.

The area treated with the gel containing 5% HYDRERGY appears smooth and corneocytes are more regular.

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