

Full Detox Eucalyptus, getting back to balance

Because sometimes we have a muddy complexion, due to internal events (tiredness, emotional) or an aggressive environment, it is necessary to help skin to control its regulation processes. For a skin that gets back its original balance, for a radiant and matt skin longer.



• How it works

Full Detox Eucalyptus acts for skin to get back to its purifying balances. Indeed it helps epidermis to get them back by providing a better cell regeneration, and the elimination of toxins through a controlled respiration - cells respire from the beginning to the end, meaning to the release of CO₂. But also by limiting the stocking of lipids at the surface of the epidermis - because it degrades them, and by reducing the creation of free radicals caused by urban atmospheric pollution agents.

Thanks to those actions, epidermis cells free from disturbing elements can get back their activity at its original level.

• A story - the eucalyptus, the tree from the Blue mountains

Eucalyptus punctata, Myrtaceae

As a mythical plant from Australia, eucalyptus is an aromatic and ancestral tree of the Australian earth. It is used as food by koalas which live in its branches. It is a medicinal plant: it is used not only by Aborigines but also all over the world as an antiseptic (leaves are applied on wounds), antipyretic and expectorant. It is also a mythical creature of the DreamTime, that shaped the Earth and its landscapes, the Blue Mountains (its blue colour comes from the eucalyptus that exhale essential oil).

• Marketing claims - purifying & oxygenating

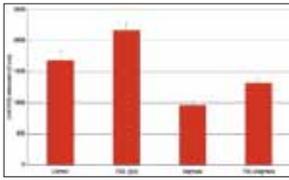
purifying, detoxifying, oxygenating, contributes to the elimination of toxins, cell regenerating, helps to get a matt skin and a radiant complexion, antioxidative, protects from pollution effects.

To be used in skincare and make-up products

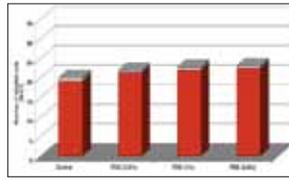
cream, fluid, serum, balm, milk, gel, foundation, concealer, etc.

in any cosmetic or skincare product dedicated to maintain or restore skin cell balance.

• Efficacy - *In vitro* testing results



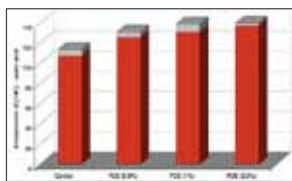
Effect on cell respiration



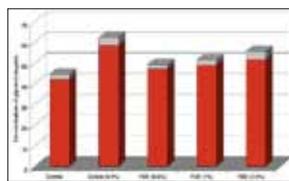
Increase of the proliferation of keratinocytes

Effect on cell respiration: at **0.5%**,

Increase of release of $^{14}\text{CO}_2$ by 29% in physiological conditions and by 38% in conditions of asphyxia. Therefore there is a stimulation of cell metabolism by metabolization of glucose.



Increase of fatty acids



Increase of glycerol

Effect on cell regeneration: at **0.5%**, **1%** and **2.5%**

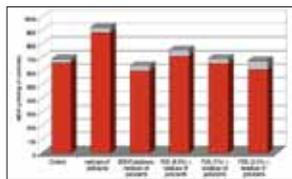
Stimulation of the proliferation of keratinocytes in the basal layer for treated epidermis respectively by 12%, 15% and 18%.

Matifying effect : at **0.5%**, **1%** and **2.5%**

- increase of the total fatty acids rate released in the medium of culture compared with control cells respectively by 17%, 22% and 28%.

- increase of the glycerol rate released in the medium of culture compared with control cells respectively by 12%, 17% and 23%.

An increase of fatty acids and glycerol rates translates a degradation of lipids (triglycerids) responsible for a shiny complexion. It helps to build the cement between corneocytes.



Decrease of MDA with residue of pollutants

Anti-pollution effect: at **0.5%**, **1%** and **2.5%**

Decrease of the lipoperoxidation induced by pollution residue which was translated by a decrease of the MDA rate respectively by 19%, 25% and 31%, compared with protective enzymes SOD/catalase (-32%).

• Technical information - formulating Full Detox Eucalyptus

- INCI name of cells: eucalytus punctata leaf cell extract
- form: cells (20%) dispersed in vegetal glycerine (80%)
- aspect: liquid
- concentration: starting at 0.5%
- dispersible in any formulation