

# WE CAN DO THE IMPOSSIBLE BETTER

**PHYTOBIOACTIVES**

**CRYOACTIVES**

**FLOWER  
ACIDS**

**COCOA  
POLYPHENOLS**

**TEALINE**

**TICILINE**

**KIGELINE**

**ARP100**

**CARICILINE**

**ROSAMINE**

**SEBORILYS**

**TABASHIREX**

**LIPACTIVES**



Biopôle Clermont-Limagne - 63360 Saint-Beauzire - FRANCE  
Tel. 33 4 73 33 99 00 - Fax 33 4 73 33 91 32 - Web : [www.greentech.fr](http://www.greentech.fr) - E-Mail : [greentech@greentech.fr](mailto:greentech@greentech.fr)

### Tealine Anti-Ageing – Detoxifying Active Ingredient

Jay-Debaut Véronique – Berthon Jean-Yves, Greentech S.A. – France

Ageing is multifactorial : it is combined with our genetic inheritance and hormonal, our environment and our behaviour. Stresses, free radicals, UV, Pollution, metals are so many factors which act on skin beauty. They imply a loss of elasticity.

To act against these stress factors, generators of Free Radicals, it is essential to prevent cutaneous ageing.

Free radicals imply some deteriorations at tissue, cellular, and molecular level. They induce a tissues rigidity associated with proteinic deteriorations such as collagen, a lipidic peroxidation, modifications and deteriorations of DNA involving a reduction in cellular proliferation (1).

The organism is naturally protected from free radicals by protection systems. However, during ageing, these protection systems are exceeded and protective capacities are decreasing.

In order to help the natural systems of protection, there are exogenic compounds such as, vitamins, phenolic compounds, and flavonoïds which are able to limit oxidative reactions and prevent the ageing process.

TEALINE results from the synergic action of White, Green and Red Tea. This active can fight effectively with respect to free radicals. Rich in polyphenols and flavonoids, TEALINE plays a protective part at tissue, cellular and molecular level.

The normal aerobic life regularly produces molecular species of oxygen and very reactive free radicals. There is a balance between the pro-oxidant formation and their neutralization by anti-oxidants which prevents the deterioration of molecular, cellular and tissular structures generated by oxidative stress.

An anti-oxidant must not act as a simple chemical compound which prevents oxidation but also as a protector of oxidable substrates which are proteins, nucleic acids (DNA) and polyinsaturated fatty acids.

To fight against this oxidative stress, the organism has various defence systems : the enzymatic systems as dismutase superoxide, catalase, peroxidase glutathion, Reductase Gluthation - the chelator agents of iron and copper - Vitamins ; tocopherol, vitamin C, Beta-caroten – the glutathion- the DNA repair systems

During ageing or because of repeated stresses, the natural systems efficiency of defence must be reinforced by the presence of trace-elements (selenium, zinc) and other anti-oxidative agents such as vitamins C and E, carotenoids, flavonoids and polyphenols.

TEALINE which is the result of Green, White and Red Tea association, helps to fight against free radicals and to limit the cutaneous ageing.



*Camellia sinensis* (Green tea and White tea)