



The science behind natural beauty



Galactic proposes a state-of-the-art anti-ageing concept that will revolutionize the cosmetic world. With the strong synergy between two natural active ingredients, apolactoferrin and lactoperoxidase, Galatea™ is one of the most effective solutions for the protection of the organism against oxidative stress. By developing innovative formulations for face cream and body lotion, Galactic provides the cosmetic industry with natural and safe solutions for both humans and environment and brings the science behind natural beauty.

The cosmetics market is evolving as a result of the ageing population and the increasing consumers' demand for more natural beauty products. In order to help manufacturers respond to this need, Galactic has developed Galatea™ a state-of-the-art concept specifically designed to combat the ageing process through natural ingredients.

As the years go by, the human skin undergoes a number of changes due to the ageing process, which is influenced by external as well as internal factors, such as UV-light exposure, air pollution, tobacco smoke, stress and malnutrition. All of these factors can cause dry skin issues, wrinkles, collagen deficiency and a loss of elasticity.

The ageing process is caused to a large extent by an oxidative stress as a result of a growing imbalance between oxidizing agents and the antioxidants occurring naturally in the body.

THE GALATEA™ CONCEPT

In Greek mythology, Galatea was the name given by Pygmalion to an ivory statue that he designed with love. In his opinion, Galatea was so perfect and graceful that he asked Aphrodite, the goddess of love and beauty, to bring Galatea to life.

The Galatea™ concept is one of the most effective solutions to prevent oxidative stress. This innovative concept is based on the synergy between lactoferrin (and more specifically apo-lactoferrin), and lactoperoxidase, which aims to slow down the skin ageing process by impeding the main causes of oxidative stress; namely free radicals, pro-oxidant oxygen species and metal ions capable of catalysing oxidation reactions.

The blend of these natural active ingredients is available in the form of face cream and body lotion.

GALATEA'S INGREDIENTS

Until now, the most common way of fighting oxidative stress was through the use of antioxidant agents such as vitamin C, vitamin E and selenium. Nowadays, lactoferrin and lactoperoxidase contained in the Galatea™ concept, demonstrate optimal efficiency.

Lactoferrin (LF) is a protein that is naturally present in cow's milk and has a very strong affinity for iron ions. As the production of free radicals is accelerated by iron – which plays a catalytic role during the oxidation process – Galactic uses lactoferrin to bind the iron and, therefore, act as a powerful chelating agent.

Lactoperoxidase (LP) is a natural enzyme that also comes from cow's milk. This enzyme has the property to eliminate the hydrogen peroxide that participates in the production of free radicals such as hydroxyl radicals (OH^{*}). These ions are highly reactive and therefore considered as the most powerful and dangerous radical agents for the organism as they damage virtually all types of macromolecules (carbohydrates, nucleic acids, lipids and amino acids).

For more information regarding Galatea™ concept, feel free to contact us at sales@lactic.com.