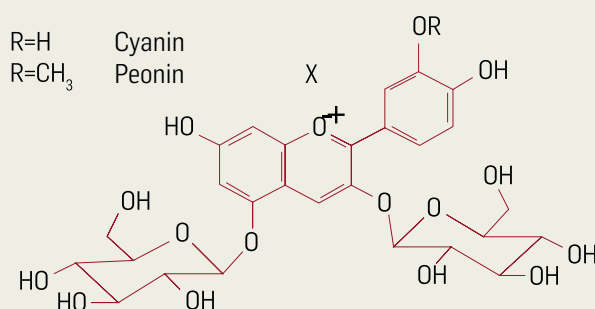




ROSE PETALS IN COSMETICS

Roses belong to the Rosaceous family Rosa L. genus, with over 100 species and thousands of varieties and hybrids.

The substances responsible for the variation in the colour of the roses are anthocyanins such as peonin and cyanin, whose structures can be seen in the following figure (Harborne, 1961; Eugster & Marki-Fischer, 1991).



Anthocyanins presents anti-inflammatory, antioxidant, fragility reducing and capillary permeability properties (Kong et al, 2003). These are extracted using polar solvents such as methanol, ethanol, acetone, water and mixtures between them.

In addition to anthocyanins, rose petals are rich in alpha-hydroxy acids, moisturizing mucilages and minerals.

NANO LINE

The NANO line is a family of ingredients developed by ASSESSA, based on the use of nanotechnology, aiming to optimize the performance of specific ingredients. This family of bioactives is based on the development of nanovectorized systems that protect the active ingredients, increase their stability and improve their biological activity through their controlled release at specific sites. Furthermore, the technology enables the association of ingredients preventing compatibility problems and allowing for the preparation of stable formulations containing a high concentration of actives. The incorporation of nanotechnological processes reinforces the mission of ASSESSA to offer formulators environmentally friendly, safe, biodegradable and biocompatible products.

FLORLIK ROSE

FLORLIK ROSE is an active ingredient produced from fresh rose petals, with an innovative process developed by ASSESSA, by which the structure of fresh petals is modified, transforming them into a liquid that contains all the bioactives components of the flower. FLORLIK ROSE is rich in anthocyanins, other polyphenols, special sugars, polyhydroxy acids, flower acids and mineral salts.



NATURAL
ORIGIN
96.40%

FLORLIK ROSE NANO

BIOACTIVE WITH ANTI-INFLAMMATORY AND ANTIOXIDANT ACTION

FLORLIK ROSE NANO IS A NATURAL INGREDIENT PRODUCED WITHOUT THE ADDITION OF SOLVENTS.

INCI NAME

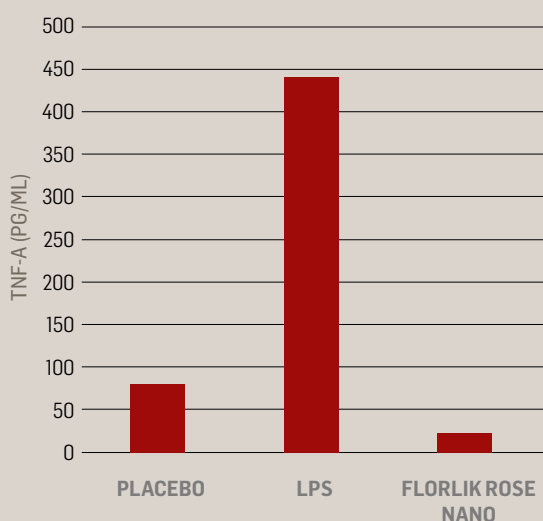
Aqua, Linoleic Acid, Oleic Acid, Rosa Hybrid Flower Extract, Polysorbate 80, PPG-15 Stearyl Ether, Steareth-2, Steareth-21, Tocopheryl Acetate, Phenoxyethanol and Caprylyl Glycol

PROOF

AVERAGE COMPOSITION OF FLORLIK ROSE NANO

PARAMETER	CONCENTRATION
Carbohydrates (g/L)	8.50
Total phenols (g/L)	10.00
Total Solids (%)	2.50
Minerals (%)	0.10

ANTI-INFLAMMATORY ACTIVITY



FLORLIK ROSE NANO is a lipid nanocapsule with an average size of 463.7 nm with a multifunctionality of hydration and high permeation involving the hydrolyzate of rose petals, protecting the antioxidant polyphenols from early degradation and partial loss of activity.



THE ENZYMATIC TRIGGER THAT RELEASES THE CONTENT OF FLORLIK ROSE NANO IS ACTIVATED **1 HOUR** AFTER IT ENTERS IN CONTACT WITH THE SKIN. THIS ACTIVITY LAST FOR UP TO **10 HOURS**, ALLOWING FOR THE CONTINUOUS RELEASE OF THE BIOACTIVE.

USAGE LEVELS

PRODUCT	(%)
Moisturizing cream	0.3 to 0.8
Body lotion (sensitive skin)	0.3 to 0.6
Protective cream	0.5 to 0.8
Lip balm	0.2 to 0.6
Eye area light emulsion	0.5 to 1.0
Make-up remover	0.4 to 0.8



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