



# INFINITY INGREDIENTS

Inspiring Cosmetics

**Microbiome & Prebiotic**

## Microbiome & Prebiotic

Consumers are becoming increasingly aware of skin health and that not all microbials are bad for your skin. Quite the contrary, in fact skin microbiota is key for healthy skin, just like healthy bacterial is good for the gut. Skin microbiota is made up of billions of microorganisms (bacteria, fungi and yeasts) that live on the skin surface. It is a natural equilibrium between beneficial (commensal) and detrimental (pathogen) strains of bacteria, fungi and yeasts. Balanced skin microbiota provides healthy, radiant and moisturised skin. Unbalanced skin microbiota leads to dysbiosis, dry, irritated, premature ageing and dull skin. With this in mind, we are seeing a number of product launches within this category as this trend gains momentum. Before listing the wonderful actives we offer for this product category, it is first important to explain the difference between probiotic, prebiotics and postbiotics.

Probiotics are living microorganisms known to provide health benefits when applied to the skin, similar to the probiotic yogurts sold to help with gut health.

Prebiotics are nutrients that induce microorganism growth and can be materials such as carbohydrates, fibres etc. We offer a wide range of ingredients with a prebiotic activity (due to their content in sugars and fibres) to boost the microbiota.

Postbiotics are microorganism-derived ingredients, such as enzymes, peptides, exopolysaccharides etc.

All the actives we offer fall under the Prebiotic category, which means they will help induce growth of the 'good bacteria' without having a detrimental effect on preserving your formulation as no 'live bacteria' is being added.

## Calybiota<sup>®</sup> Bio

(INCI: Glycerin, Water, Bombax Costatum Flower Extract)

Calybiota<sup>®</sup> Bio is an extract rich in polysaccharides of red Kapokier calyces, a tree sourced in Africa. Calybiota<sup>®</sup> Bio is COSMOS certified by Ecocert and is particularly recommended for personal care and intimate hygiene products.

A clinical study has demonstrated its protective role of the vaginal flora. This study revealed a prebiotic effect in this flora, showing a reduction in inflammation and feelings of discomfort, hydration of the intimate area and an improvement in sexual comfort.

Calybiota<sup>®</sup> Bio is also recommended for acne-prone, atopic/ eczematous or hypersensitive skin, as well as for deodorant formulas, limiting unpleasant odours. This active ingredient protects and maintains the balance of the skin microbiota.

Recommended usage level: 1 - 3%

## Ener-GY plus

(INCI: Citrus Limon Fruit Extract, Glyceryl Glucoside, Glycerin, Potassium Sorbate)

Ener-GY plus is your microbiota-friendly smiling skin energiser. Developed by enzymatic technology this glyceryl glucoside is in an upcycled and sustainable Mediterranean solvent matrix rich in fruit oligo-elements.

Ener-GY plus supports cell vitality by boosting mitochondrial biochemical pathways, increasing ATP production and boosting cell energy for an anti-fatigue effect.

Recommended usage level: 1%

## DefensoWin<sup>™</sup>

(INCI: Ectoin)

A powerful pure molecule from a specific selected bacterial strain from cutting edge bio-fermentation technology.

This probiotic works by balancing the skin microenvironment to help prevent acute environmental stress whilst providing superior moisturisation and improving skin barrier function. Ectoin possesses excellent anti-acne properties and is clinically tested to provide high skin cell protection against osmotic stress.

Recommended usage level: 0.5 - 2%

## EquiBiotics<sup>™</sup> LA

(INCI: Maltodextrin, Lactobacillus)

EquiBiotics<sup>®</sup> LA is an active focussed on skin microbiota and sensitive skin. It is a probiotic-derived ingredient obtained by *L. acidophilus* PBS066 integral-structure preservation.

As post-biotic ingredient, EquiBiotics<sup>®</sup> LA, is able to modulate the amount of TNF-alpha to enhance the skin barrier and balance the skin microbiota. These activities make it the perfect active for sensitive skin.

It is designed to take care of the epidermis, treating it as a complex ecosystem considering multiple variables, especially the skin microbiota and the cross-talk with the skin. It supports skin microbiota and sensitive skin through, enhancement of the skin barrier, modulation of the skin microbiota and modulation of the induction of inflammation.

Recommended usage level: 1%

## EquiBiotics™ LRh

(INCI: Maltodextrin, Lactobacillus Ferment)

Probiotic-derived active ingredient obtained from *L. rhamnosus* LRH020 tyndallization process that naturally supports the resident microbiota through the promotion of commensal bacteria. It is able to exert a "prebiotic" effect on Synbalance® strains to promote probiotic growth as efficiently as glucose. EquiBiotics™ LRh strengthens the skin barrier and its natural defences to promote the skin ecosystem along with well-being by preventing the colonisation of pathogens. It significantly reduces TEWL, redness and wrinkle depth whilst improving elasticity and firmness. Ideal for biotic serums, active make-up, protective lotions, soothing gels, strengthening creams and skin relief treatments.

Recommended usage level: 0.5 - 2.0%

## JADE ALGA™

(INCI: Aqua, Hydrolyzed Ulva Lactuca Extract)

JADE ALGA™ is a patented active ingredient composed of native ulvans coming from the green seaweed *Ulva Armoricana*. It is the only alga with "Shape Memory Technology", allowing it to challenge the repeat cell deformations (contraction/expansion) induced by the tides. Jade Alga restores an optimal skin shape memory through the stimulation of Involucrin and Cornifin as well as its protective effect against the over production of Heme Oxygenase induced by pollutants. It also provides a soft enzymatic and chemical peeling (BHA) for skin radiance. A clinical study showed the reduction of intercellular spaces and the improvement of cellular cohesion, skin softness and satin effect.

Recommended usage level: 1-3%

## PLANKTON THERMAL WATER

(INCI: Onsen-Sui, Sodium Benzoate, Potassium Sorbate )

PLANKTON THERMAL WATER is a warm thermal water coming from French Pyrenees. It is particularly rich in silica and selenium. Plankton Thermal Water is considered as a prebiotic and post-biotic with anti-inflammatory and anti-pollution activities.

Recommended usage level: 1-100%

# Contact Us

Interested?

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