

TECHNICAL PROTOCOL

BIOLOGIC DEFENSE SKIN ECOLOGY BALANCE







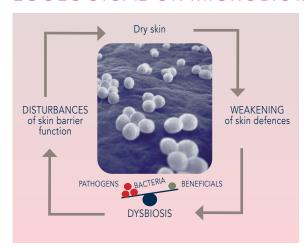


ECOLOGICAL AND BIOLOGICAL BALANCE FOR THE SKIN

Ever increasing environmental aggressions and stress in our modern society have given rise to an increase in the number of people subject to skin fragility and dermal reactivity. Our skin balance is too often disrupted and it must therefore be preserved to ensure its good health.

Our Research Department has worked on a very comprehensive treatment which helps the skin to better defend itself, through a "double" balancing action. This treatment stimulates both the ecological balance and biological balance of the skin. It allows to recover a balance of skin flora, giving it greater well-being on a daily basis. Its very wide field of action enables this treatment to be recommended for all skin types: dry skins, oily skins, sensitive skins, mature skins.

ECOLOGICAL OR MICROBIOTA BALANCE



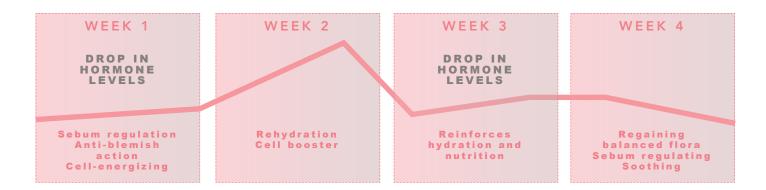
The impact that microorganisms living in the human body have on health has been analysed scientifically for a long time, as part of medical studies. At the centre of this scientific research, there is in particular the work carried out on skin flora and their action on skin balance. It is known that the skin is colonised by thousands of useful and beneficial microorganisms called "microbiota". The term "skin microbiome" refers to all these microorganisms and their interactions. These interactions can sometimes be inadequate in response to certain types of aggressive bacteria: pathogens. Being able to find suitable dermatological skin care to achieve a proper balance of skin microbiome currently represents one of the most significant trends of cosmetic scientific research.

True to our spirit of innovation, our specialists have worked on a microbiotic treatment with a booster effect for the development of microorganisms useful and beneficial to skin flora in order to improve the ecological balance of the skin. It will then be able to better defend against environmental aggressions: pathogenic bacteria, parasites... but also pollution, UV, cellular fatigue, stress.

BIOLOGICAL OR HORMOTIC BALANCE

As a result of cross-research on hormo-cosmetics and cell biology, this skin treatment was inspired by the intimate connection that exists between beauty and the feminine cycle. Each woman knows through experience that her body lives at the rhythm of its monthly cycle. The skin is a hormone-dependent organ that undergoes regular variations which disrupt it: fatigue, dull complexion, dehydration, pimples.

Here is a treatment that helps to fill hormone cycle deficiencies as it provides daily skin rebalancing. This is due to the effectiveness of a Chinese medicinal plant whose benefits are recognised in the treatment of monthly cycle disorders. When the use of hormones in cosmetics has not been possible, this has led research laboratories to the use of plant-based ingredients, named "phyto-H". It has been observed that these plant-based molecules have a structure similar to that of human cells. It is therefore a natural supply.



WHAT ARE MICROBIOME AND MICROBIOTA?

The symbiotic relationship that exists between humans and bacteria (e.g. digestion) has been a topic discussed for years. The impact that microorganisms living on and in the human body have on health has been analysed scientifically for a long time, as part of medical studies. It is only recently that skin flora and their action on skin quality have attracted the attention of scientists. Among other factors, many skin problems are directly related to the symbiosis between humans and bacteria. Therefore, it is not surprising that skin microbiome and responsive dermocosmetic products currently represent one of the most significant trends in the cosmetic industry.

The skin is colonised by trillions of microorganisms: bacteria, yeasts, fungi, viruses, ... collectively called "microbiota". The term "skin microbiome" refers to all these microorganisms, their genome and their interactions with their environment.

MICROBIOTA IMBALANCE OR DYSBIOSIS

There are many factors that can cause an imbalance in our microbiota:

- Excessive temperature, air humidity levels,
- Sebaceous gland activity which increases at puberty, promoting the proliferation of several types of bacteria,
- Age makes the skin dryer and skin flora less rich,
- Uncontrolled bacterial invasion on certain regions of the face and body,
- Diet and stress,
- Misuse of antiseptics, unsuitable hygiene products, medicines, etc.

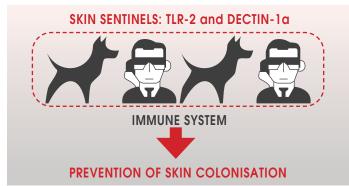
MICROBIOME AND SKIN IMMUNE SYSTEM

Bacteria can be "commensal" or "pathogenic". Commensal bacteria share their ability with pathogenic bacteria to multiply on the human body. The important difference is that commensal bacteria develop without harming the skin, whereas pathogenic bacteria invade and damage the human body by secreting toxins and producing inflammation.

SELF-DEFENSE MECHANISM OF OUR SKIN ECOSYSTEM

We have seen that "resident" skin flora exert a beneficial presence on the skin, since they preserve it from the invasion and colonisation of pathogenic bacteria. Any change in the balance of skin flora causes immune system disorders, which are at the origin of dermatoses. Many skin problems, such as acne, neurodermatitis or psoriasis, are directly related to the disruption of symbiosis between the skin and bacteria.

To defend ourselves against the invasion of microbes, our skin has developed what is called an "innate" immune system. This system activates within minutes following a microbial invasion. It triggers the destruction of microbes by phagocytosis and, in particular, activates the second line of defence: "adaptive immune system", also known as "acquired immune system".



TLR-2

Keratinocyte receptors, recognise pathogens and propagate the appropriate signal to immune system cells.

DECTIN-1a

Specific receptors of keratinocytes and dendritic cells for recognising yeasts and specific bacteria.

Much scientific research has led to discovering a specific family of receptors of the innate immune system, produced by keratinocytes and positioned on their cellular membranes: Toll-Like Receptors (Nobel Prize in Medicine in 2011) and Dectin-1a, capable of selectively recognising these various microorganisms and inducing adaptive immune responses.

A POSTBIOTIC TO STIMULATE OUR SELF-DEFENSE SYSTEM

PREBIOTICS, PROBIOTICS OR POSTBIOTICS?

In skin care, there are several options to positively influence microbiome: "prebiotics", "probiotics" and "postbiotics". While probiotics are living microorganisms that preserve existing flora, prebiotics are compounds that promote the growth of specific microorganisms, inherent in the skin. Postbiotics are metabolites extracted from bacteria or yeasts, which will act on the skin's environment

and nature, in order to promote the growth of bacteria valuable and beneficial to the skin. In addition to being able to regulate the ecosystem composition of all natural skin bacteria, postbiotics also have the advantage of exercising anti-inflammatory, immuno-modulatory and antioxidant activities.

Our Research Department has selected a specific postbiotic: RELIPIDIUM, derived from biotechnology, is obtained from bio-fermented yeast hydrolysate through a specific strain of Lactobacillus. Its actions are multiple.

RELIPIDIUM fortifies the natural protection of the skin against pathogens by stimulating the synthesis and activation of TLR-2 and Dectin-1a epidermal receptors. These keratinocyte receptors recognise foreign organisms and activate the immune response. They are involved in the destruction of harmful microorganisms.

RELIPIDIUM, also strengthens the skin barrier by increasing the synthesis of epidermal lipids. These skin lipids are

essential for maintaining the functioning of the balanced ecosystem. The increase in sphingolipid synthesis is important since it restores skin protection. It encompasses direct surface protection with preservation of the skin flora balance and deep restoration between the cells of the stratum corneum and those of the granular layer.

RELIPIDIUM is a multi-target protective active ingredient with various mechanisms having an effect on skin balance.

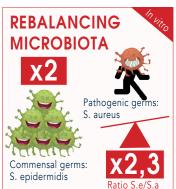
FUNCTION BARRIER

- Lipid synthesis
- Junction cohesion
- Operational protective function

REINFORCEMENT OF SKIN DEFENCES

- Activation of TLR2
- Activation of Dectin-1a
- Reduction of inflammation





MICROBIOTA, ITS NUTRITIONAL BALANCE AND SKIN HEALTH

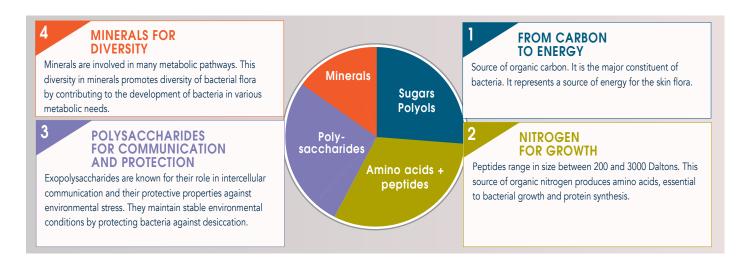
Just as it is acknowledged that a healthy and balanced diet is beneficial to the body, it is easily understandable that the skin may need a nutritional supplement to balance its microbiota.

Our Research Department has selected ACTIBIOME: a complex derived from biotechnology, involving different ingredients bringing essential nutrients to biodiversity and homoeostasis of skin microbiota.

ACTIBIOME includes:

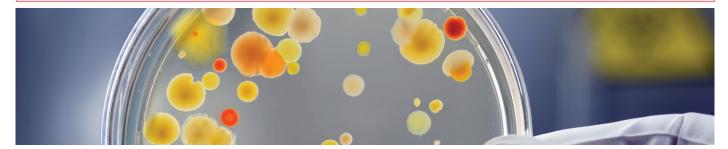
- A brown algae extract rich in sugars and polyols, sources of organic carbon, constituting the most significant bacteria. It represents a source of energy for the skin flora.
- A green microalgae extract rich in amino acids and peptides, an organic source of nitrogen producing amino acids required for bacterial growth and protein synthesis.
- A marine exopolysaccharide required for communication and protection. Exopolysaccharides are known for their involvement in intercellular communication and their protective properties against environmental stress. They maintain stable environmental conditions by protecting the bacteria from desiccation.
- Sea water with a wide variety of minerals and trace elements. Minerals are involved in many metabolic mechanisms. This diversity of minerals allows for the development of as many different species as possible, with conventional nutritional needs.

ACTIBIOME inhibits the destructive effect of dysbiosis and rapidly rebalances the natural microbiota of the skin.

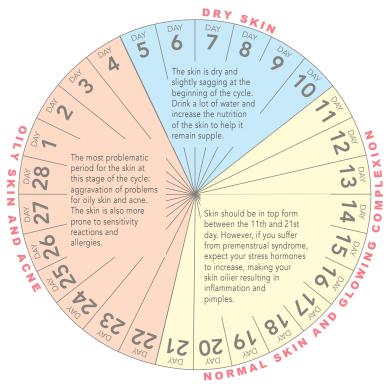


BIOLOGICAL DEFENSE, A MICROBIOTIC TREATMENT WITH MULTIPLE ACTIONS

- Contributes bioferments essential to the ecological balance of the skin,
- Strengthens the natural skin barrier by activating the production of sphingolipids and ceramides,
- Strengthens the protection against pathogenic bacteria by activating TLR-2 and Dectin-1a receptors in order to activate the immune system of the skin,
- · Produces organic carbon required for the formation of skin flora,
- Contributes organic nitrogen and amino acids essential to the growth of skin flora,
- Produces exopolysaccharides, protectors against environmental stress,
- Supplies specific minerals beneficial for skin flora synthesis.



BIOLOGICAL AND HORMOTIC BALANCE



As a result of cross-research on hormo-cosmetics and cell

biology, BIOLOGICAL DEFENSE was the last high-performance challenge for our laboratories. This new innovative skincare line was inspired by the intimate connection between beauty and femininity: each woman throughout her life experiences a body that lives according to the rhythm of its natural cycles. The skin is a hormone-dependent organ that undergoes these regular hormonal changes and weakens over the course of time: dehydration, sagging skin, loss of density, appearance of wrinkles, dull complexion. To maintain its beauty and firmness, the skin completes successive cycles to renew itself, but its potential for self-regeneration weakens with time and the skin ages prematurely.

BIOLOGIC DEFENSE preserves youth and femininity through a particular approach that aims to correct the deficiencies of essential mechanisms: hormonal rebalancing of the skin. On a daily basis, women undergo and live the more or less uncomfortable and embarrassing "vagaries" that induce hormonal changes.

Each period of the month is characteristic of a very different state of the skin due to a fluctuation, in particular, of oestrogen production. Oestrogens are steroid hormones secreted primarily by the ovaries. They act by attaching themselves to cell receptors, located on the surface of cells of various organs. They promote the development of secondary sexual characteristics and are also involved in controlling the menstrual cycle. They have effects on the liver, adipose tissue,... and the skin.

LIPOBELLE SOYAGLYCONE, IN VIVO EFFICACY TESTS

Our Research Department has selected LIPOBELLE SOYAGLYCONE, a liposomal preparation of GENISTEIN, the biologically active form of the most abundant soya isoflavone. Through biotechnology, GENISTEIN has been activated by a controlled and targeted hydrolysis, and then has been protected by a "liposomal encapsulation" system enabling rapid absorption in the deep layers of the skin. GENISTEIN strongly stimulates the production of collagen but also prevents its degradation by matrix metalloproteinases.

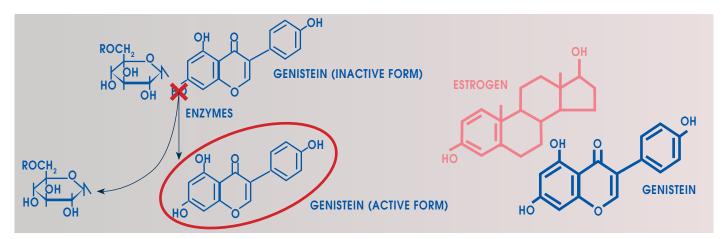
A cream containing encapsulated GENISTEIN was tested on 20 volunteers aged 55 to 64 years, with a twice-daily application, for 3 months. Tests have shown an increase of:

Hydration,

• Firmness,

Skin thickness.

The study has clearly demonstrated the positive effect of LIPOBELLE SOYAGLYCONE on the stimulation of dermal fibroblasts. The increase in skin thickness is mainly due to the concentration of dermal collagen as well as to the increase in concentration of hyaluronic acid.

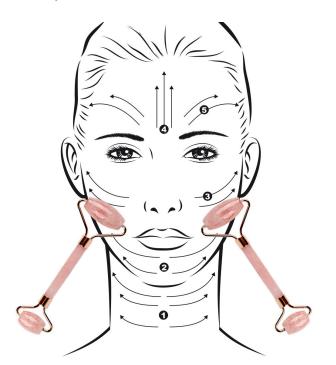


PREMEDIKL DRAIN ROLLER, DETOXIFY THE SKIN MICROBIOME



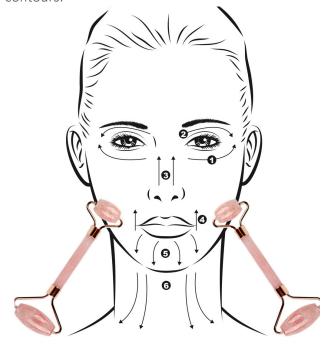
MAXI ROLLER

The MAXI ROLLER massages large areas such as the forehead, cheeks or neck.



MINI ROLLER

The MINI ROLLER is recommended for narrower and more delicate areas, such as the eyes and lip contours.



HOME SKINCARE PRODUCTS RANGE



E1911	ACTIVE CARBON MASK	50 ml
E1912	SYMBIOTIC SERUM	30 ml
E1913	AQUABACILIA	50 ml
E1914	TONIBACILIA	50 ml
E1915	SENSIBACILIA	50 ml
E1916	NUTRIBACILIA	50 ml
E89	CYTOKINOL SERUM	30 ml

PROFESSIONAL SKINCARE PRODUCTS RANGE



E284	KIT 4 SESSIONS:				
	E285	SYMBIOTIC SERUM	2,5 ml x 4		
	E286	MICROBIOTIC SERUM	2,5 ml x 4		
	E287	CYTOKINOL SERUM	2,5 ml x 4		
	E288	NUTRIBACILIA	50 ml x 1		
	E289	SENSIBACILIA	2 ml x 4		
	E290	ECOSYSTEMIC POWDER MASK	30 g x 4		
E1050	CYTOKINOL SERUM 30 ml		30 ml		

BIOLOGIC DEFENSE SKIN CARE LINE

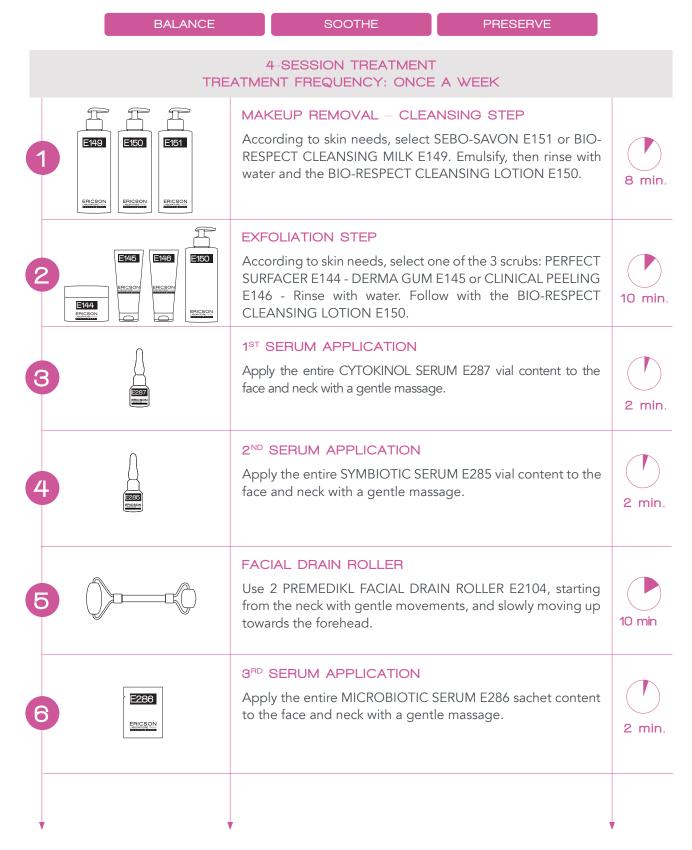
PRODUCTS	FUNCTIONS	ACTIVE INGREDIENTS & ACTIONS
RETAIL: 50ml jar Ref. E1913. PROFESSIONAL USE: not available.	Light and fresh, it immediately hydrates the skin. Thanks to its fast penetration, it leaves a very soft and non-greasy feel. Directions for use: Apply as a day and/ or night cream, either by itself or after the recommended serum.	 RELIPIDIUM: Restores the skin microbiota. ACTIBIOME: Prevents dysbiosis of the microbiota. LIPOBELLE SOYAGLYCONE: Skin balancing effect. AQUAXYL: "Anti-dehydration shield" action. SODIUM HYALURONATE: Moisturiser and replumper.
RETAIL: 50ml jar Ref. E1914. PROFESSIONAL USE: not available.	With a creamy and dense texture, it provides comfort to the skin as well as a better hold. With a creamy and dense texture, it provides comfort to the skin as well as a better hold. Day after day, rebalanced and better protected. Directions for use: Apply as a day and or night cream, either by itself or after the recommended serum.	 RELIPIDIUM: Restores the skin microbiota. LIPOBELLE SOYAGLYCONE: Skin balancing effect. SWEET ALMOND OIL: Soothing and softening action. COTTON FLOWER: Excellent revitalising ingredient. BIOECOLIA: Stimulates the synthesis of antimicrobial skin peptides.
RETAIL: 50ml jar. Ref. E1915. PROFESSIONAL USE: 2ml sachet x 4 Ref. E289 in 4-session kit Ref. E284.	This cream has a balancing action on natural skin flora and helps the skin to better defend itself. Light and fluid, it nourishes the skin. It quickly penetrates and leaves a very soft touch. Day after day, rebalanced and better protected. Directions for use: Apply as a day and/or night cream, either by itself or after the recommended serum.	 RELIPIDIUM: Restores the skin microbiota. ACTIBIOME: Prevents dysbiosis of the microbiota. LIPOBELLE SOYAGLYCONE: Skin balancing effect. OLIVE OIL EXTRACT: Soothes inflammation. JOJOBA OIL: Protects the skin from dehydration. ARGAN OIL: Antioxidant, it restores suppleness and softness to dry undernourished skins.
RETAIL: 50ml jar. Ref. E1916. PROFESSIONAL USE: 50ml tube x1 Ref. E288 in 4 sessions kit Ref. E284.	Very rich, it intensely nourishes a very dry skin but also soothes a sensitive skin. Ideal in night repair cream. Directions for use: Apply as a day and/or night cream, either by itself or after the recommended serum.	 RELIPIDIUM: Restores the skin microbiota. ACTIBIOME: Prevents dysbiosis of the microbiota. LIPOBELLE SOYAGLYCONE: Skin balancing effect. AÇAI BERRY OIL EXTRACT: Fights against cell oxidation. BORAGE OIL: Revitalising and protective properties. EVENING PRIMROSE OIL: Restructuring and antiaging ingredient.
RETAIL: 30ml bottle Ref. E1912 PROFESSIONAL USE: 2,5ml ampoule x 4 Ref. E285 in 4-session kit Ref. E284.	This serum has a double balancing action on natural skin flora and helps the skin to better defend itself. It stimulates both its ecological and biological balance. Directions for use: Apply prior to the day or night cream, on perfectly cleansed skin.	 RELIPIDIUM: Restores the skin microbiota. ACTIBIOME: Prevents dysbiosis of the microbiota. LIPOBELLE SOYAGLYCONE: Skin balancing effect. MADECASSOSIDE EXTRACT: Soothes inflammation. GLYCYRRHETINIC ACID: Calms irritations, promotes wound healing. UNISOOTH: Strengthens the skin immune system defenses.

BIOLOGIC DEFENSE SKIN CARE LINE

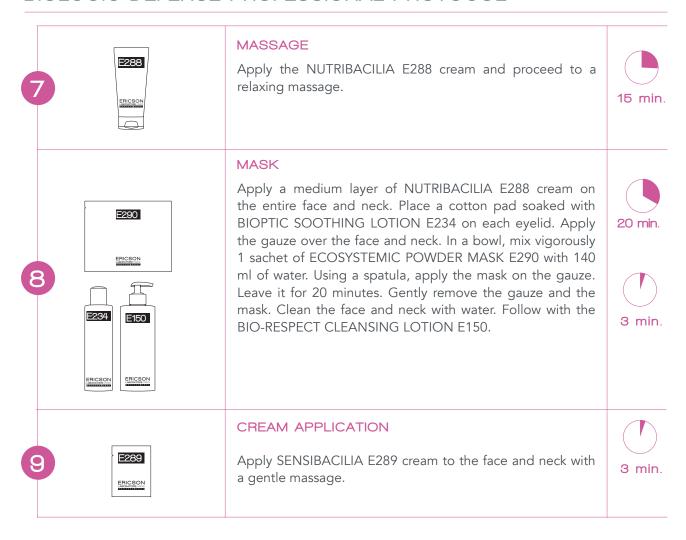
PRODUCTS	FUNCTIONS	ACTIVE INGREDIENTS & ACTIONS
MICROBIOTIC SERUM RETAIL: not available. PROFESSIONAL USE: 2,5ml sachet x 4 Ref. E286 in 4 sessions kit Ref. E284.	Immunostimulating and antimicrobial properties. It activates the natural defences of the skin. It stimulates both its ecological and biological balance. Directions for use: Apply all over the face and neck. Refer to professional protocol.	 RELIPIDIUM: Restores the skin microbiota. ACTIBIOME: Prevents dysbiosis of the microbiota. BIOECOLIA: Stimulates the synthesis of antimicrobial skin peptides. GINSENG EXTRACT: Protects skin against the signs of aging. CHERRY BLOSSOM EXTRACT: Moisturizing and softening. Antioxidant property.
RETAIL: 50ml jar Ref. E1911 PROFESSIONAL USE: not available.	Removes impurities and toxins, refines the grain of skin. Its nourishing texture revitalizes and rebalances the skin. It immediately becomes smoother, softer and brighter. Directions for use: Apply a thick layer on cleansed and well-dried skin. Leave on for 10 minutes. Wet your fingers to perform a gentle massage, the mask is transformed into a milky and soft cream. Avoid the eyes area. Then rinse with water. 1 or 2 times per week.	 BAMBOO CHARCOAL: Absorption by ion sensor phenomenon. Revitalizing effect. INCA INCHI OIL: Healing, antioxidant actions. ROSEMARY EXTRACT: Purifying and antibacterial power. GINSENG EXTRACT: Tonic, revitalizing, firming effect.
RETAIL: 30ml bottle Ref. E89. PROFESSIONAL USE: 2,5ml ampoule x 4 Ref. E287 in 4-session kit Ref. E284. PROFESSIONAL USE: 30ml tube Ref. E1050.	Soothes irritations and attenuates redness. Good stimulation of the skin's self-defence ability. Directions for use: Apply morning and night on the sensitive arease of the face and neck. Professional use: Apply locally on the facial sensitive zones. Refer to professional protocol.	 SEPICALM S: Fights against inflammation. RUSCUS EXTRACT: Drains and decongests. ANTIPHLOGISTICUM K: Anti-inflammatory, soothing.
ECOSYSTEMIC POWDER MASK RETAIL: not available. PROFESSIONAL USE: 30g sachet x 4 Ref. E290 in 4-session kit Ref. E284.	Prevents dysbiosis. Helps regenerate the skin by stimulating the production of collagen and elastin. Restores the skin water content. Directions for use: Pour a sachet of ECOSYSTEMIC POWDER MASK E1903 into a bowl, add 140 ml of water. Mix vigorously and apply on the gauze, leave for 20 minutes. Refer to professional protocol.	 ECOSKIN: Pre/probiotic action. MALLOW EXTRACT: Moisturising, softening and anti-radical actions. LIQUORICE EXTRACT: Anti-inflammatory, calms irritations. CENTELLA ASIATICA EXTRACT: Skin repair and regeneration.

BIOLOGIC DEFENSE PROFESSIONAL PROTOCOL

Ericson Laboratoire takes its inspiration from the principles of skin ecology, which are essential for supporting the skin's natural defense mechanisms. The BIOLOGIC DEFENSE range contributes to preserve the microbiome balance: the billions of micro-organisms essential to the cutaneous ecosystem to ensure a healthier and more resistant skin day after day.



BIOLOGIC DEFENSE PROFESSIONAL PROTOCOL



4-SESSION TREATMENT

TREATMENT LENGHT: 75 MINUTES

TREATMENT FREQUENCY: ONCE A WEEK