

# KALIBIOME

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## ECOGENETIC

### >> POSTBIOTICS: A NEW CONCEPT FOR MICROBIOTA CARE

#### EXCLUSIVE POSTBIOTICS FOR SENSITIVE SKIN

**Kalibiome postbiotics** are specialties aimed to balance skin microbiota and overcome the criticalities of the traditional prebiotic and probiotic based actives.

**Compared to prebiotics** they show higher specificity of action; when **compared to probiotic derivatives**, they proved maximum stability in presence of cosmetics preservatives and absence of side effects, given the lack of bacterial fragments and living bacteria in their composition.

**Kalibiome is a complex of pure peptides, fatty acids and biosurfactants** released by commensal bacteria through a patented bio-fermentation (PB TECH®) that enables to obtain reproducible postbiotics able to restore skin microbiota ecogenetic equilibrium, promote skin wellness through a combined soothing, dereddening, replenishing and moisturizing action.

### >> POSITIONING

#### TECHNOLOGY HIGHLIGHTS

- Postbiotics complex with concentrated and reproducible composition
- **Obtained by controlled bio-fermentation, patented technology, no bacterial fragments/toxins presence, absence of side effects and high tolerability**
- **Compatible with cosmetics preservatives**
- Preservative free (powder form)
- Storage at room temperature
- Low concentration of use ( $\geq 0.1\%$ )

#### FEATURES AND APPLICATIONS

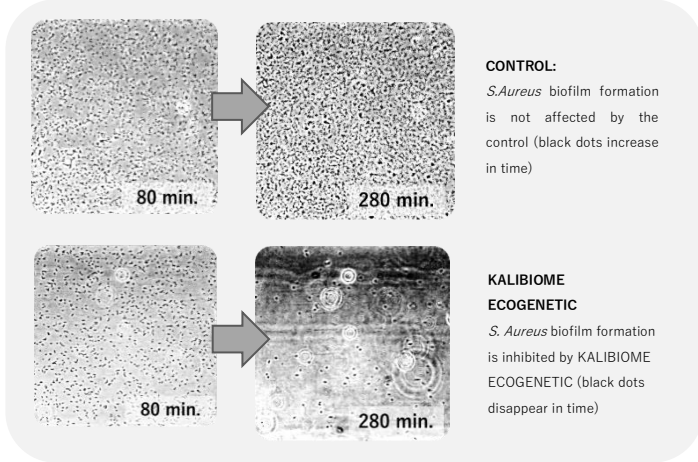
- Immune system modulation action
- Skin barrier integrity, compactness and hydration increase
- Dereddening and soothing
- Skin microbiota balancing and protection against infections from broad range of microbes & virus
- Dermis replenishing and redensification
- Ideal for sensitive, atopic skin treatments
- Suitable for face, body, intimate area care and mucosa (cosmetics & medical devices)



PATENTED

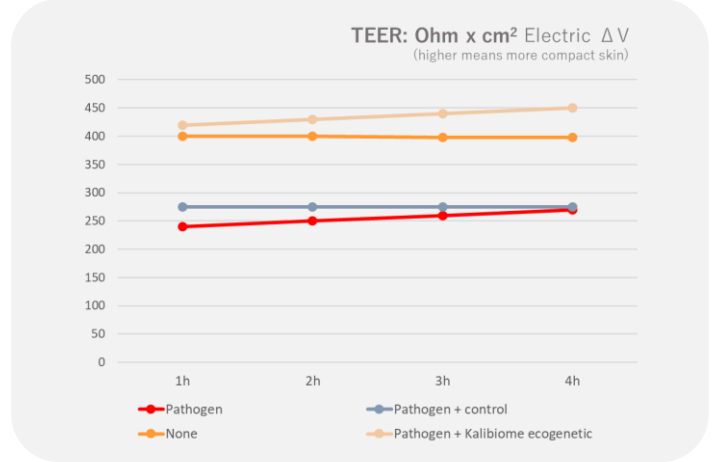


### MICROBIOTA BALANCING: ACTION VS PATHOGENS



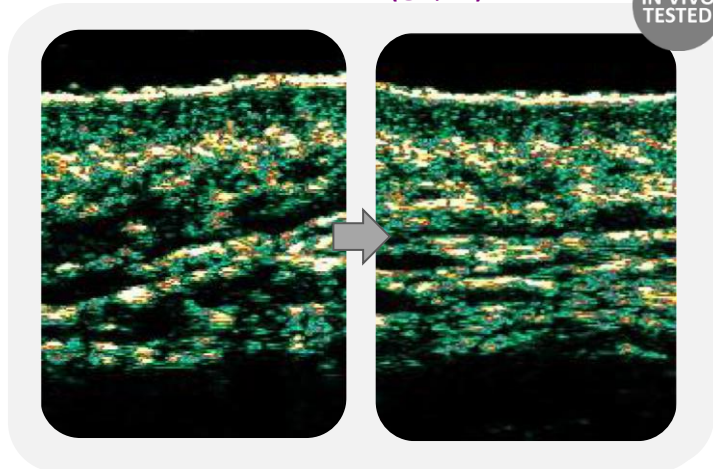
Kalibiome Ecogenetic inhibits bacterial biofilm growth after just 280 minutes, with selective action vs pathogens (*S.aureus*, *P.Aeruginosa*, etc.)

### SKIN BARRIER INTEGRITY VS PATHOGENS



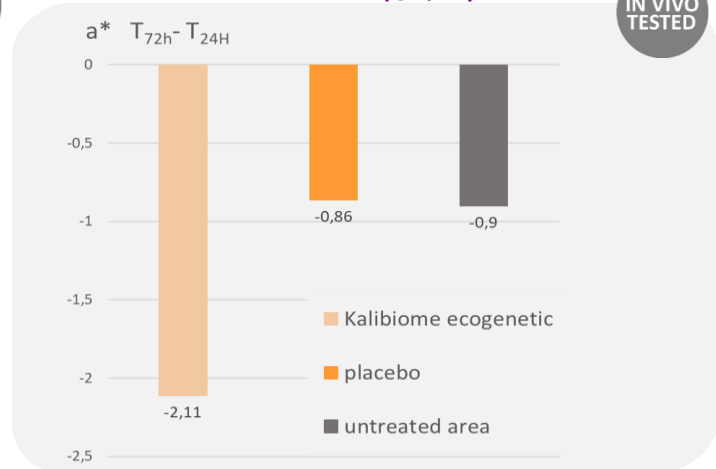
In presence of skin pathogens on keratinocytes, Kalibiome Ecogenetic treatment restores the skin barrier integrity better than in healthy tissues

### DERMIS REDENSIFICATION (@0,2%)



Kalibiome Ecogenetic replenishes skin dermis and epidermis, increasing compactness and skin density in 6 weeks

### SKIN REDNESS REDUCTION (@0,2%)



It reduces skin redness better than control after a treatment on 20 volunteers. Its activity is linked to the modulation of *IL-12*, *IL-10* and *TNF-α*

## >> TECHNICAL OVERVIEW

PH OF USE	% OF USE	APPLICATIONS	SOURCING	FORMULATION TIPS
4.5 ÷ 8.0	0.1 ÷ 0.5	Creams, lotions, gels, serums, rinse off products, alcoholic sanitizers, medical devices	Biotechnology	Presolubilize in water and add the solution to the emulsion, shower gel etc. by thorough stirring in cold process

[ INCI NAME : Lactobacillus Ferment, Maltodextrin, Mannitol ]