

KALIBIOME

SENSITIVE

>> 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 increase skin compactness, barrier function, soothe and deredden sensitive skin.

>> POSITIONING

TECHNOLOGY HIGHLIGHTS

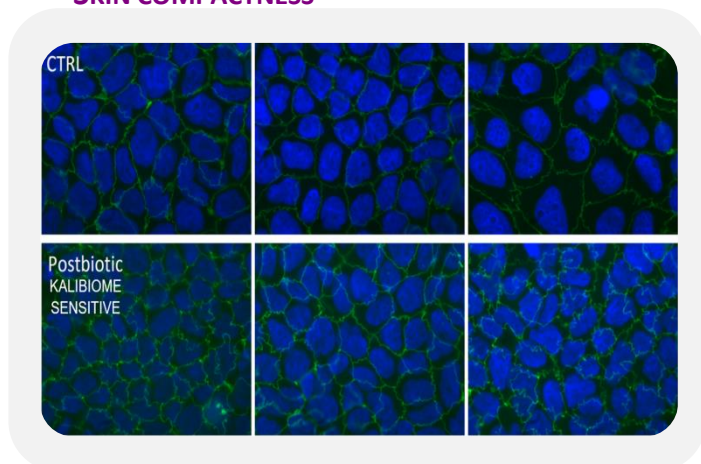
- Postbiotics complex with concentrated and reproducible composition
- **Obtained by controlled bio-fermentation, patented technology, no bacterial fragments/toxins presence, absence of side effects and high tolerability**
- **Compatible with cosmetics preservatives**
- Preservative free (powder form)
- 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 (itching reduction)
- **Skin commensal microbiota balancing and reinforcement** against infections from broad range of microbes & virus
- Free radicals scavenging action
- Ideal for sensitive, atopic skin treatments
- Suitable for face, body, intimate area care and mucosa (cosmetics & medical devices)

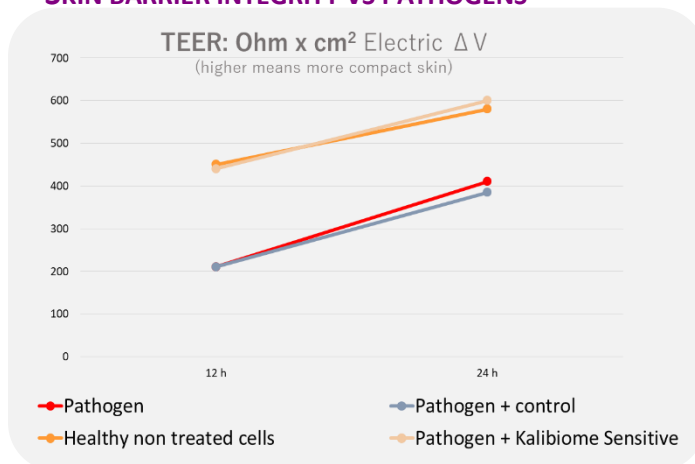


SKIN COMPACTNESS



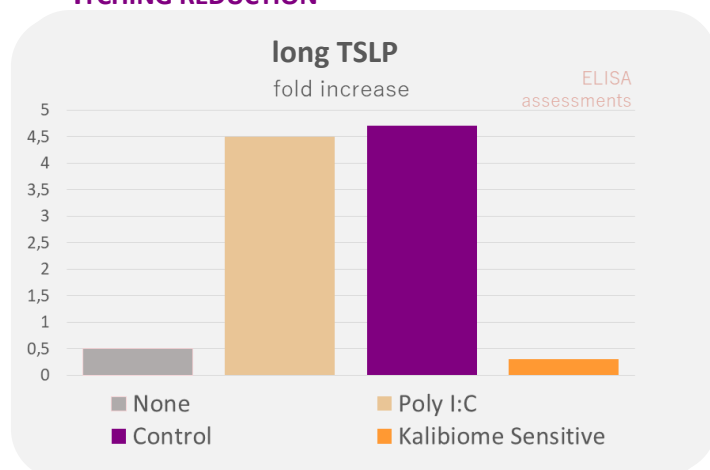
It increases skin keratinocytes compactness by stimulating an increased production of Z-O1 tight junctions (green fluorescence)

SKIN BARRIER INTEGRITY VS PATHOGENS



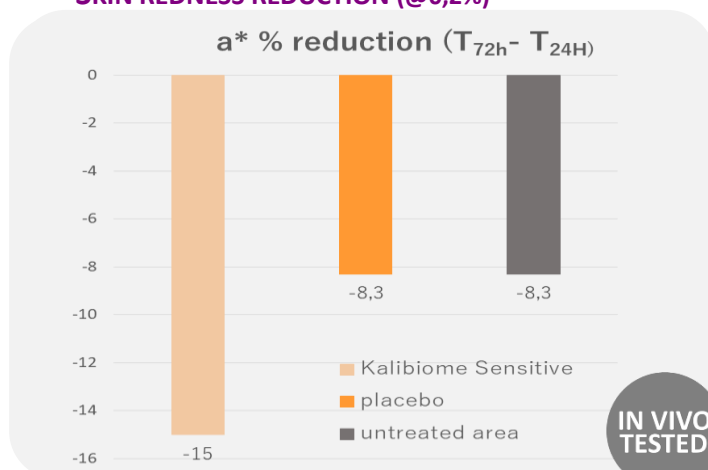
In presence of skin pathogens on keratinocytes, Kalibiome Sensitive treatment gives the same skin barrier integrity as in healthy tissues

ITCHING REDUCTION



Kalibiome Sensitive downregulates the Long TSLP (cytokine involved in the genesis of itching during skin inflammation) to values as in healthy tissues

SKIN REDNESS REDUCTION (@0,2%)



Kalibiome Sensitive reduces in vivo the skin redness (a* reduction) more than control after a treatment on 20 volunteers

>> 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, Mannitol]