



KALIBIOME

>> POSTBIOTICS: A NEW CONCEPT FOR MICROBIOTA CARE

EXCLUSIVE POSTBIOTICS FOR ORAL CARE AND SENSITIVE GINGIVA

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 soothe sensitive gingiva, repair damaged tissues, balance oral microbiota equilibrium, reduce inflammation and dysbiosis in periodontitis.

>> 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 (≥ 0.1%)

FEATURES AND APPLICATIONS

- Immune system modulation and soothing action
- Oral mucosa barrier integrity increase
- Regeneration of damaged gingiva, hyaluronic acid and collagen increase
- Oral microbiota balancing and protection against broad range of microbes and virus
- Free radical reduction
 Ideal for oral care products for gingiva





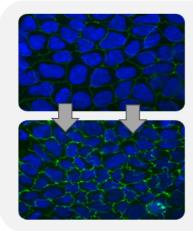






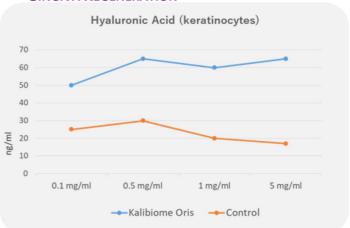


ORAL MUCOSA BARRIER INTEGRITY INCREASE



Instrumental
analysis (TEER) prove
that even in
presence of
pathogens,
Kalibiome keeps the
integrity of oral
mucosa barrier as in
healthy tissues

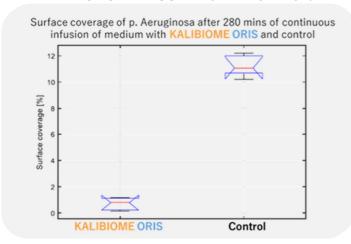
GINGIVA REGENERATION



Kalibiome increases keratinocyte compactness by stimulating the production of Z-O1 tight junctions (green fluor.), even in presence of pathogens

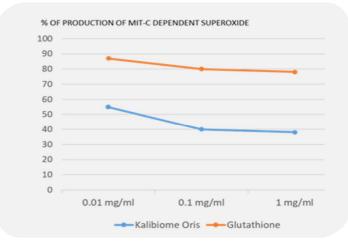
Kalibiome increases the production of hyaluronic acid in keratinocytes and pro-collagen I in fibroblast, key components for gingival integrity

INHIBITION OF PATHOGEN BACTERIA BIOFILM ONSET



Kalibiome Oris inhibits bacterial biofilm formation, with selective action against oral pathogens (eg. Pseudomonas aeruginosa)

FREE RADICAL REDUCTION



Kalibiome Oris reduces free radicals more effectively than GSH (glutathione), reducing periodontal disorders and oral inflammations

>> TECHNICAL OVERVIEW

PH OF USE	% OF USE	APPLICATIONS	SOURCING	FORMULATION TIPS
4.5 ÷ 8.0	0.1 ÷ 0.5	Toothpaste, mouthwash, dental gels and medical devices	Biotechnology	Presolubilize in water and add to the end product by thorough stirring in cold process

[INCI NAME : Lactobacillus Ferment, Mannitol]

