

KALIBIOME

ORIS

ORAL MICROBIOTA CARE



KALIBIOME POSTBIOTICS: A NEW CONCEPT



- Concentrated and reproducible postbiotics complex
- Obtained by controlled bio-fermentation, finalized to select a specific active output
- No bacterial fragments/toxins, only ferment actives
- Total absence of side effects and maximum tolerability
- No culture broth or living bacteria, preservatives free
- No interference with cosmetics preservatives
- Powder form
- Low concentration of use required (0.1 ÷ 0.5 %)

POST-biotics Concentrated biotech active specialties.

Fermentation carried in minimal media & controlled conditions. No living bacteria, residual food or bacterial fragments. Direct beneficial effects on skin and microbiota. Highly reproducible composition.



White, soluble, colorless, odorless powder with concentrated actives.

*Patented fermentation process

THE KALIBIOME PLATFORM

PBTECH

 *Kalichem*
a lamberti company



Humanitas
Research Center



Patented
fermentation
process



Postbiotics for
cosmetics &
personal care

STRAIN SELECTION FOR POSTBIOTICS PRODUCTION



Postbiotics were obtained from **Lactobacillus Paracasei** a commensal microorganism that showed beneficial effects on host including a significant anti-caries activity*

*Koll P et Al. 2008

KALIBIOME TARGETS VS PERIODONTITIS

- 1) Immune system rebalancing through cytokines/chemokines release modulation, aimed to the inflammation control
- 2) ROS inactivation to keep under control the periodontal tissue damage related to oxidative stress
- 3) Microbiota unbalance control and biofilm formation prevention
- 4) Oral mucosa barrier function restoring



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Immunomodulation



Gingival tissue inflammation ↓

Gums irritation, redness & recession ↓

Tissue Regeneration



Oral mucosa repair ↑

Wound healing ↑

Epithelial Barrier Strengthening



Oral mucosa defenses ↑

Gums & teeth sensitivity ↓

Microbial Control



Dental plaque ↓

Oral microbiota balance ↑

Cavities & tartar ↓

Halitosis ↓

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- Toothpastes
- Mouthwashes
- Gingival gels
- Overnight treatments
- Mouth sprays

