

# KALIBIOME

A G E

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

### EXCLUSIVE POSTBIOTICS FOR ADVANCED ANTI-WRINKLE

Kalibiome postbiotics are peptides, fatty acids, biosurfactants released by commensal bacteria able to balance the skin microbiota. They represent the «messengers and effectors» of bacteria beneficial actions on the skin. They are manufactured with a patented technology (PB TECH®) that allows to obtain postbiotics with high reproducibility, providing cosmetics products with concentrated actives able to promote skin replenishing redensification, anti-wrinkle action and elasticity enhance. Compared to prebiotics, they show higher specificity of action. Given the absence of living bacteria, Kalibiome is stable in presence of preservatives, and shows a total lack of potential side effects and maximum reproducibility, contrarily to probiotic and lysate based actives.

## >> 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

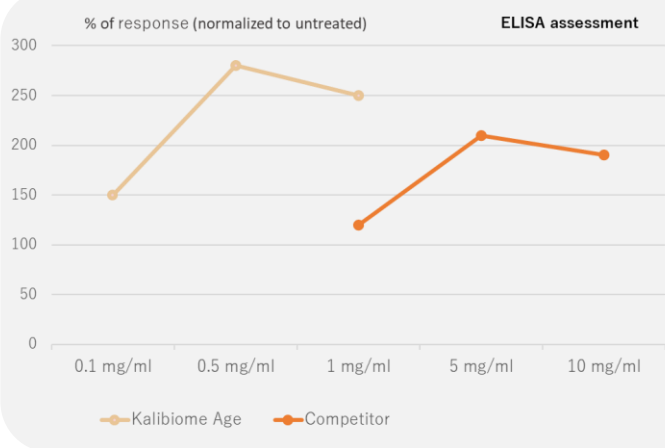
- Hyaluronic acid and Collagen I synthesis increase, antiwrinkle action
- Skin replenishing and dermis redensification
- Elasticity and compactness increase
- Anti-inflammaging and derreddening
- Ideal for aged and sensitive skin treatments
- Suitable for face, body, intimate area care and mucosa



MADE IN ITALY

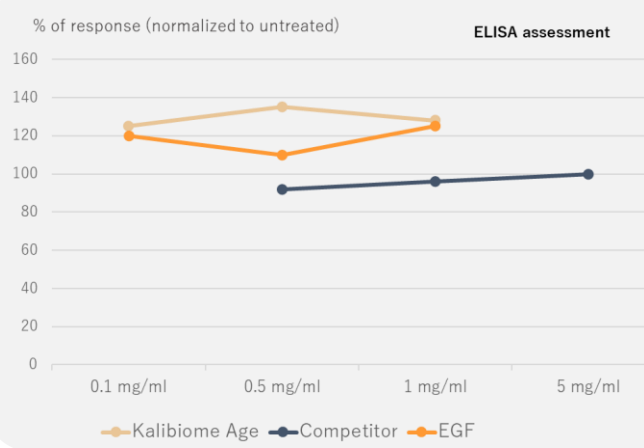
[www.kalichem.it](http://www.kalichem.it)  
Tel. + 39 030 2693532  
[kalichem@kalichem.it](mailto:kalichem@kalichem.it)

### HYALURONIC ACID INCREASE



Kalibiome Age increases epidermal hyaluronic acid more effectively and efficiently than a market benchmark (lower dose required)

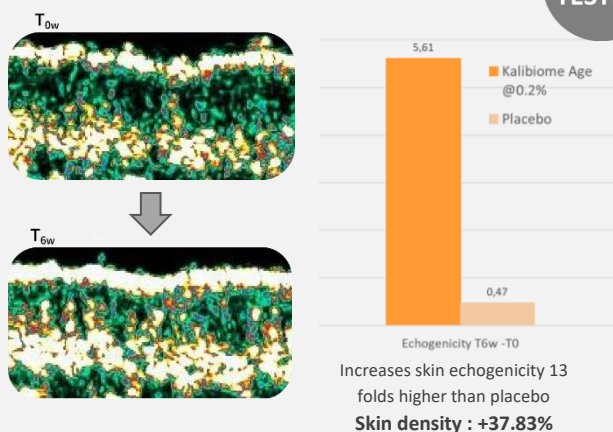
### PRO-COLLAGEN I INCREASE



Kalibiome Age increases collagen production in dermal fibroblasts more effectively than a market benchmark (lower dose required) and EGF

### DERMIS REPLENISHING & REDENSIFICATION

IN VIVO TESTED

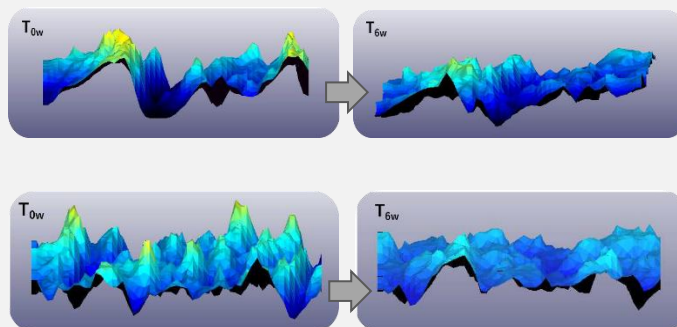


Kalibiome Age shows a redensification action on collagen (white bands), with echogenicity increase value 13 folds higher than placebo after 6 weeks

### ANTI WRINKLE (@0,2%)

IN VIVO TESTED

6 week challenge: before and after Kalibiome Age treatment



Kalibiome Age reduces significantly wrinkle depth after a 6 week treatment. Compared to placebo, it decreases the wrinkle depth in vivo by 4 folds

## >> 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, 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, Maltodextrin ]