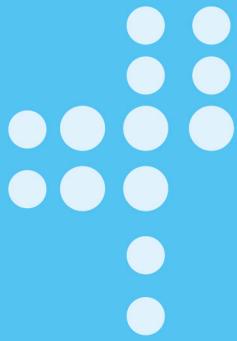


PREBIOME™

- Purpose for skin microbiome balance -

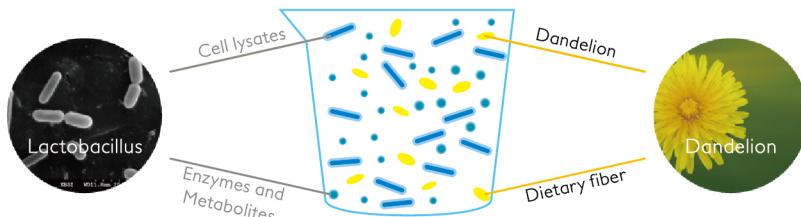


Applicable products of PREBIOME™

Skin care, Body care, Baby care, etc.

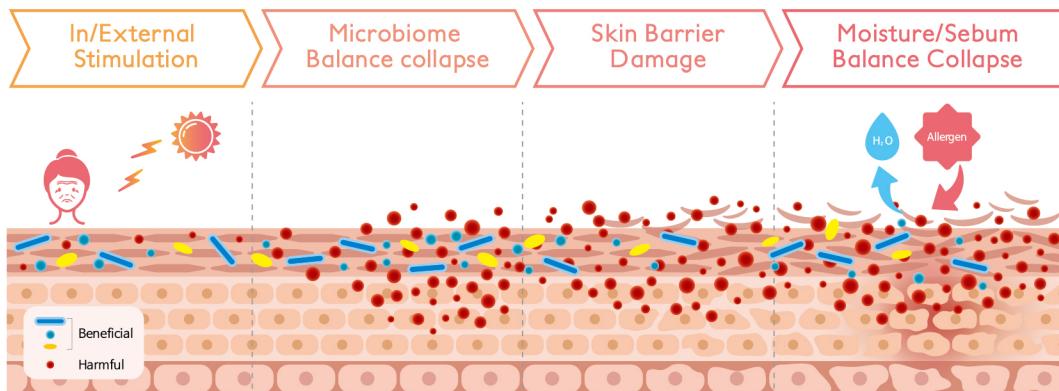
What is PREBIOME™?

For healthy skin's natural beauty, PREBIOME™ improves skin microbiome balance by decreasing harmful bacteria and increasing beneficial bacteria including lactic acid bacteria



Use Lactobacillus plantarum isolated by RADIANT Inc.
Even bring 'Postbiotics' effect with Lactobacillus plantarum ferment lysate, a real skin lactic acid bacteria!

PREBIOME™ helps growth of lactic acid bacteria and improves to a healthy skin ecosystem (Microbiome)



Healthy skin balances beneficial and harmful bacteria. However, when the skin is damaged by a variety factors, loses the balance and results that the amount of harmful bacteria increases and the skin barrier breaks down.

SPECIFICATION

INCI Name

Water / Butylene Glycol / 1,2-Hexanediol / Lactobacillus Ferment Lysate / Taraxacum Officinale (Dandelion) Leaf Extract / Ethylhexylglycerin

China Compliance

水 / 丁二醇 / 1,2-己二醇 / 乳酸杆菌发酵溶胞产物 / 欧蒲公英(TARAXACUM OFFICINALE)叶提取物 / 乙基己基甘油

Color

Pale Brown to Light Brown

Shelf life

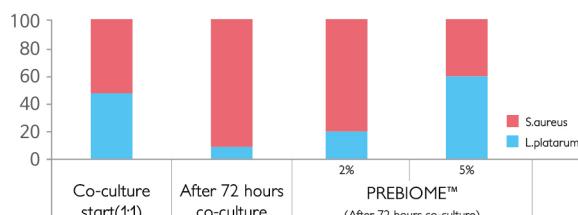
2 years

Recommend dosage

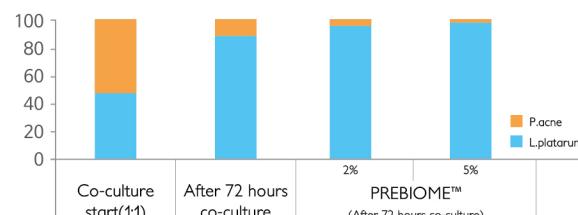
2% - 5%

Main Biological Effects for Cosmetics

● [In-vitro study] Regulation of Skin Microbiome

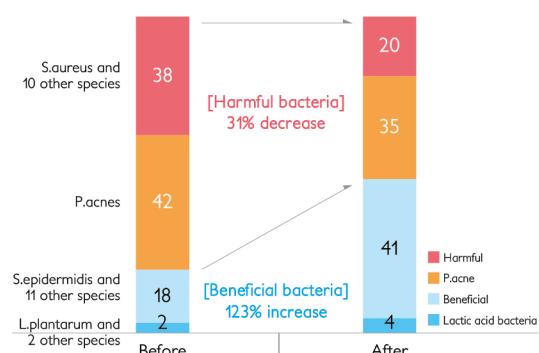


PREBIOME™ increases beneficial *L.plantarum* while decreases harmful *S.aureus*.



PREBIOME™ increases beneficial *L.plantarum* while decreases harmful *P.acne*.

● [In-vivo study] Regulation of Skin Microbiome Distribution



Collect 27 kinds of microorganisms on the face and check microbiome distribution (by DNA detection)

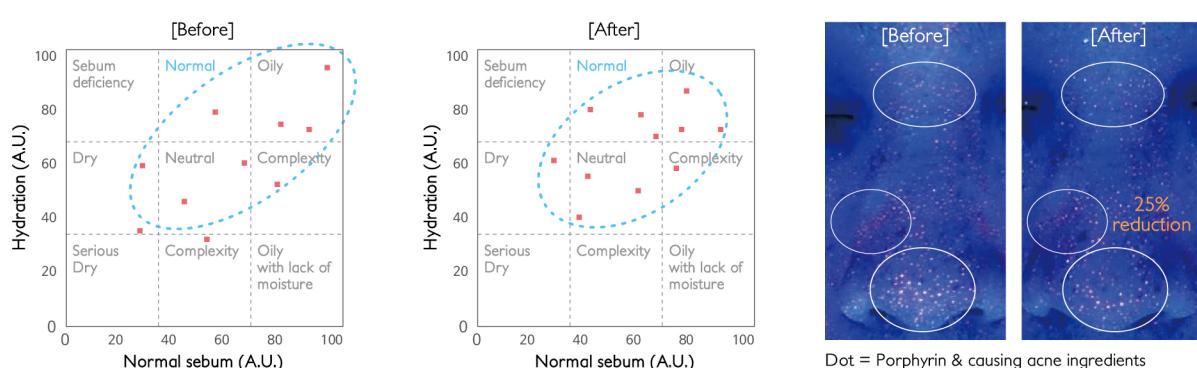
[Before : Normal Condition]

80% of **harmful bacteria (+P.acne)** and 20% of **beneficial bacteria (+Lactic acid bacteria)** are measured.

[After : With PREBIOME™]

By applying 3% PREBIOME™ for 4 weeks, 55% of **harmful bacteria (+P.acne)** and 45% of **beneficial bacteria (+Lactic acid bacteria)** are measured.

● [Clinical study] Skin Hydration&Sebum, Skin comedogenic activity



- Subject : 10 person (20-50 years)
- Test period : 4weeks
- Application : Treat 3% PREBIOME™ mist to the face, 2 times a day
- Measurement : Check skin redness improvement with equipment (Soft Plus, OBSERV)

PREBIOME™ improves moisture & sebum level near to normal skin level (Hydration 10% increase, Sebum 20% decrease)
PREBIOME™ improves skin redness and decreases acne causing ingredients.