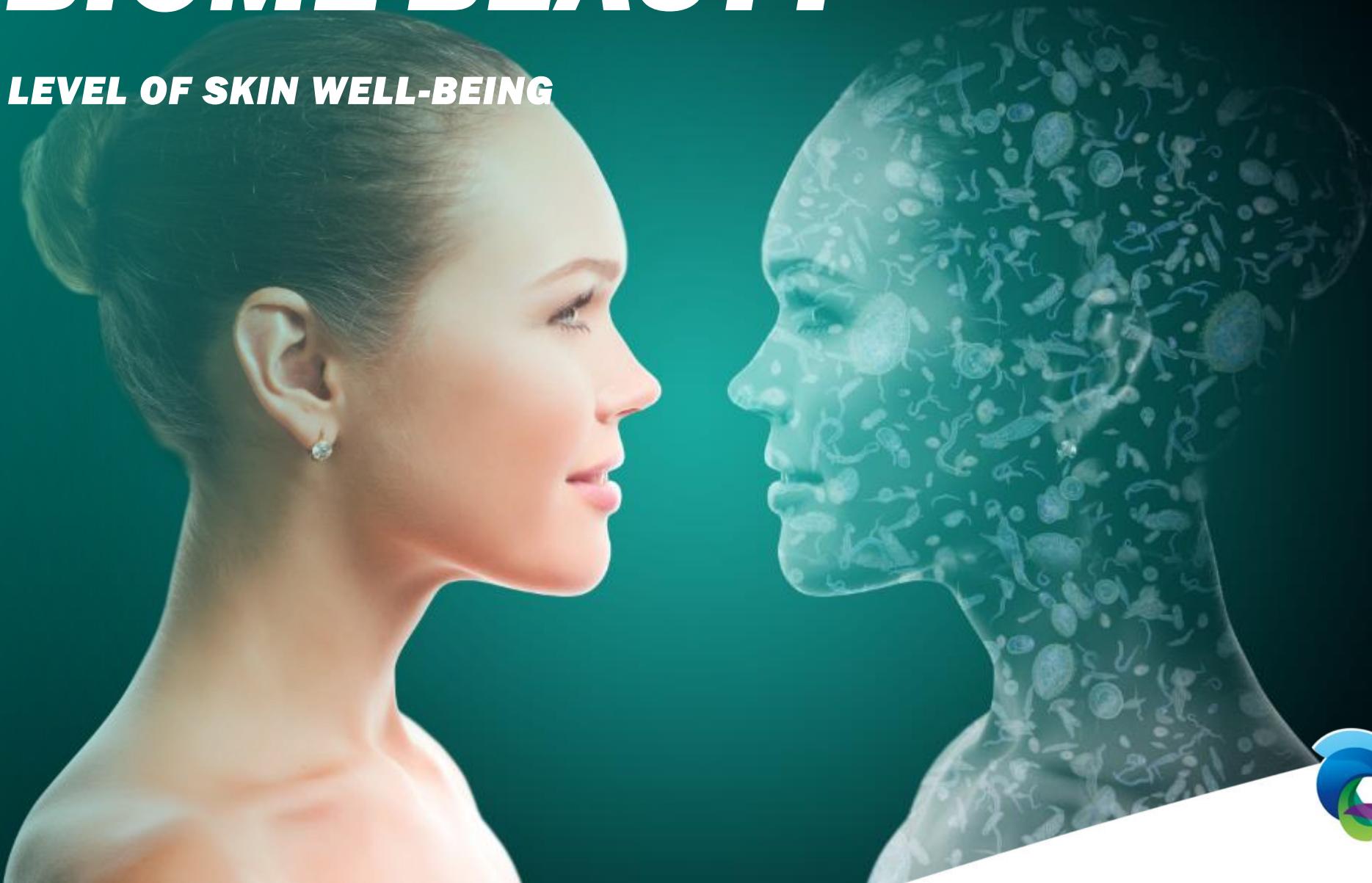


# EPIBIOME BEAUTY™

**THE NEW LEVEL OF SKIN WELL-BEING**

April 2019



# EPIBIOME BEAUTY™

## THE NEW LEVEL OF SKIN WELL-BEING!

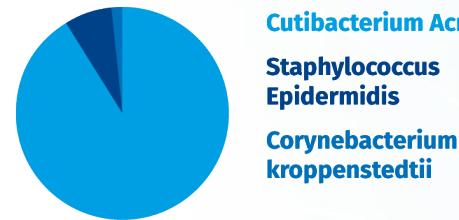
- EPIBIOME BEAUTY™ (EPIDERMAL MICROBIOME) combines our expertise in CORNEOCARE® which builds a strong epidermal barrier, with the skin microbiome.
- The skin microbiome is directly linked with the skin barrier functions and play a role in both healthy and disturbed skin conditions.
- For the first time in one clinical study, DSM scientists demonstrated the seen and unseen- the complex relationship between normal, dry or oily skin, and its microbiome.
- In total, more than 200 different bacteria species were identified - predominantly
  - **CUTIBACTERIUM ACNES** - an important gatekeeper that influences sebum production.
  - **STAPHYLOCOCCUS EPIDERMIDIS** - a keystone for healthy skin.
  - **CORYNEBACTERIUM KROPPIENSTEDTII** - a novel target for the control of skin redness



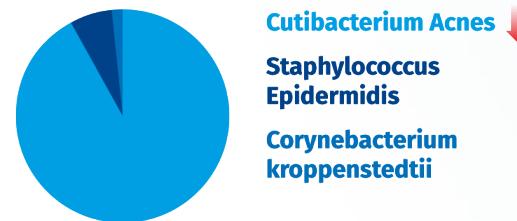
# FOCUS ON CUTIBACTERIUM ACNES, CORYNEBACTERIUM KROPPENSTEDTII, AND STAPHYLOCOCCUS EPIDERMIDIS

## OILY SKIN

Species distribution on oily skin before treatment

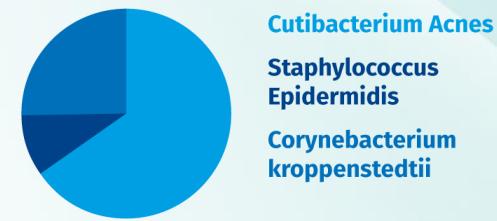


Species distribution on oily skin after treatment (ALPAFLOR® ALP®-SEBUM)

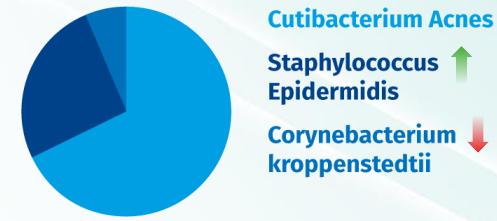


## DRY SKIN

Species distribution on dry skin before treatment

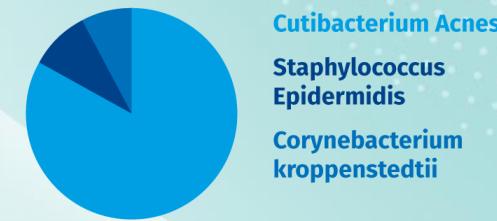


Species distribution on dry skin after treatment (SYN-UP®)

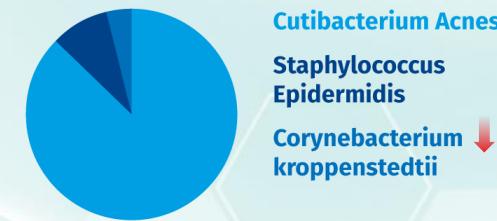


## NORMAL SKIN

Species distribution on normal skin before treatment



Species distribution on normal skin after treatment (OXY 229 PF)

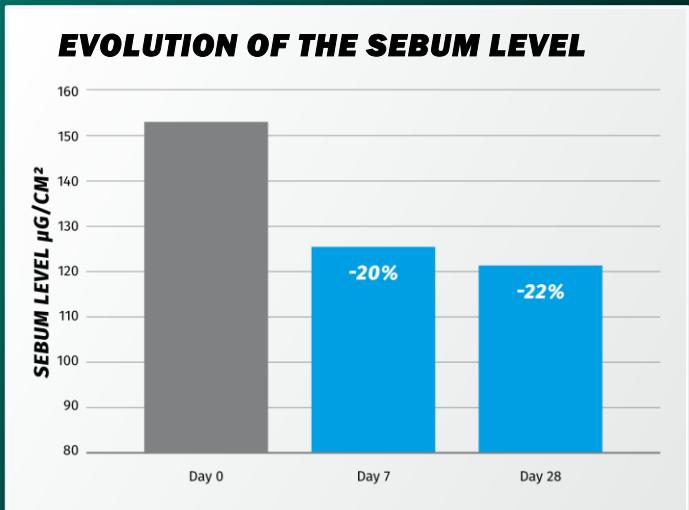


## MAJOR CHANGES DURING THE TREATMENT:

- **CUTIBACTERIUM ACNES IS DECREASED ON OILY SKIN**
- **STAPHYLOCOCCUS EPIDERMIDIS IS INCREASED ON DRY SKIN**
- **CORYNEBACTERIUM KROPPENSTEDHII IS DECREASED ON DRY AND NORMAL SKIN**

# EPIBIOME BEAUTY™ FOR OILY SKIN

**ALPAFLOR® ALP®-SEBUM CONTROLS OILY SKIN BY DOWN-REGULATING SEBUM AND CUTIBACTERIUM ACNES LEVELS**

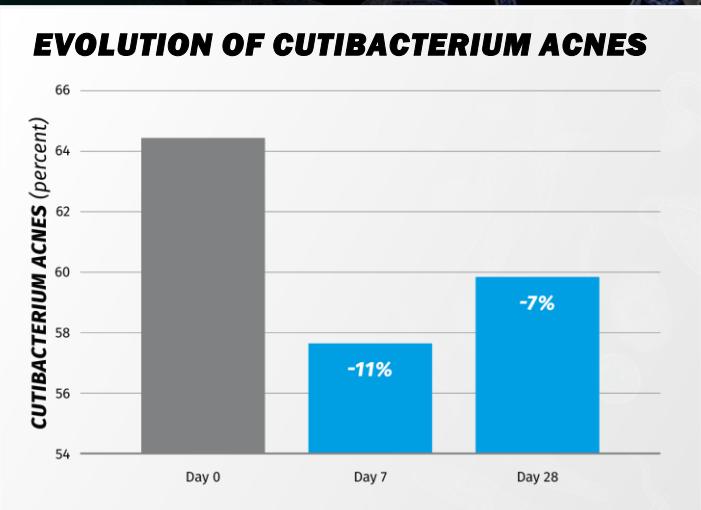


20%

Sebum reduction on forehead skin after 1 week

22%

Sebum reduction on forehead skin after 28 days



11%

Cutibacterium Acne reduction on forehead skin after 1 week

7%

Cutibacterium Acne reduction on forehead skin after 28 days

# ALPAFLOR® ALP®-SEBUM CONTROLS OILINESS FOR BEAUTIFUL-LOOKING SKIN



## UNIQUE PRODUCT FEATURES

- Rare Alpine plant, organically cultivated at high altitudes on an ancient alpine moraine
- Standardized; high Oenothein B and flavonoids content
- Significantly inhibits 5- $\alpha$ -reductase, the key enzyme in sebum formation
- Significantly decreases epidermal pro-inflammatory Interleukin-8 and Interleukin-1 $\alpha$

## INCI NAME (ACTIVE)

Epilobium Fleischeri Flower/Leaf/  
Stem Extract



## BENEFITS

- Visible sebum production reduction for beautiful-looking skin
- 91% of women perceived an improvement in skin appearance
- 18% of women experienced reduced pore size

## COSMETIC APPLICATION

- Best for oily, irritated skin
- Products that target combination skin
- Suitable for prebiotic skincare

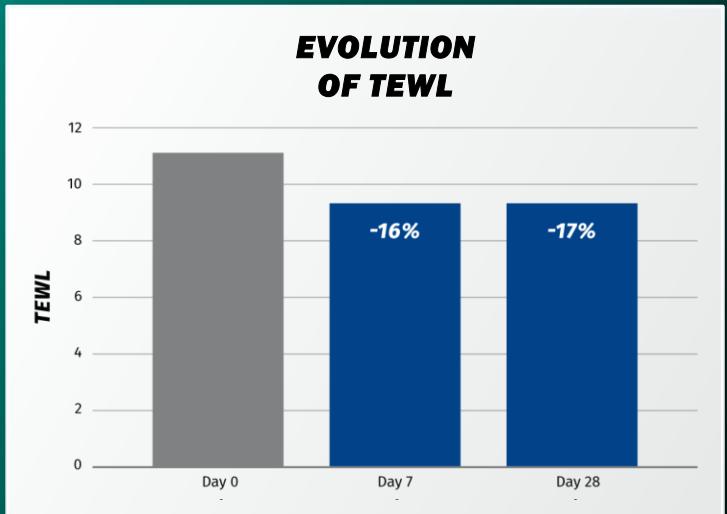
## SUGGESTED CONCENTRATION

1-3%



# EPIBIOME BEAUTY™ FOR DRY SKIN

**SYN-UP® FIGHTS AGAINST DRY AND RED SKIN CONDITIONS BY BOOSTING  
STAPHYLOCOCCUS EPIDERMIDIS AND REDUCING CORYNEBACTERIUM KROPPENSTEDTII**

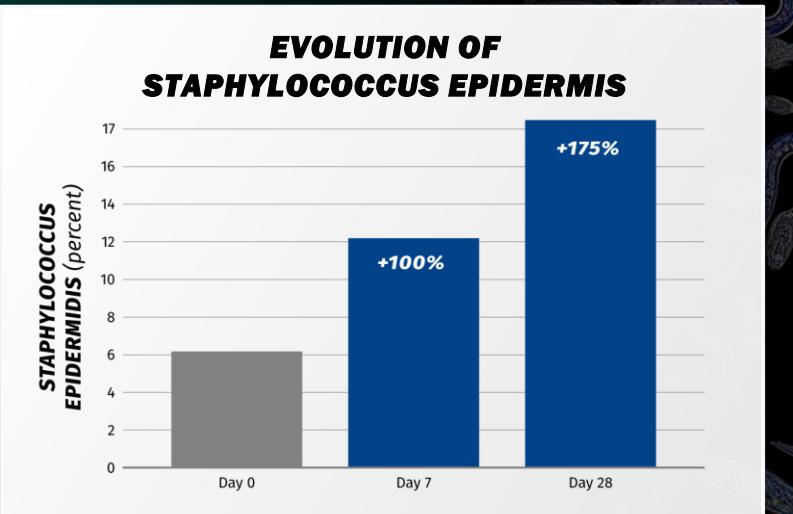


16%

Skin barrier improvement on dry cheek after 1 week

17%

Skin barrier improvement on dry cheek after 28 days

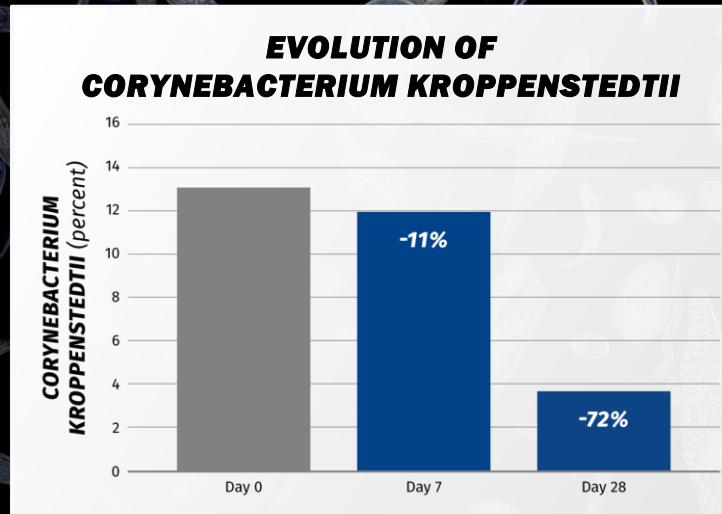


+100%

Staphylococcus Epidermidis on dry cheek after 1 week

+175%

Staphylococcus Epidermidis on dry cheek after 28 days



11%

Corynebacterium Kroppenstedtii reduction on dry cheek after 1 week

72%

Corynebacterium Kroppenstedtii reduction on dry cheek after 28 days

# SYN-UP® FIGHTS AGAINST DRY SKIN CONDITIONS



## UNIQUE PRODUCT FEATURES

- Sophisticated patented synthetic dipeptide derivative
- Significant inhibition of urokinase activity by up to 97%
- Significant inhibition of plasmin activity by up to 41%
- Significant reduction of MMP9 by up to 60%
- Strong reduction of CXCL5 and IL-8 - markers for skin sensitivity and inflammation
- Inhibits *Staphylococcus Aureus* levels *in vitro*

## INCI NAME (ACTIVE)

Benzylsulfonyl-D-Seryl-Homophenylalanine Amidinobenzamide Acetate

## BENEFITS

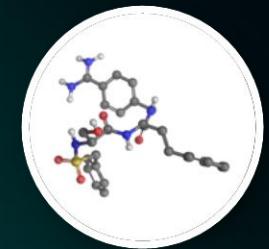
- Makes skin more resilient to stress attacks day- by-day
- Real, significant prevention of dry skin conditions
- Visible, improvement of dry skin conditions
- Impressive reduction of stinging sensations
- Significant promotion of great looking skin

## COSMETIC APPLICATION

- Signature ingredient to fight against dry skin conditions
- Products with focus on daily environmental stress attacks
- Suitable for prebiotic skincare

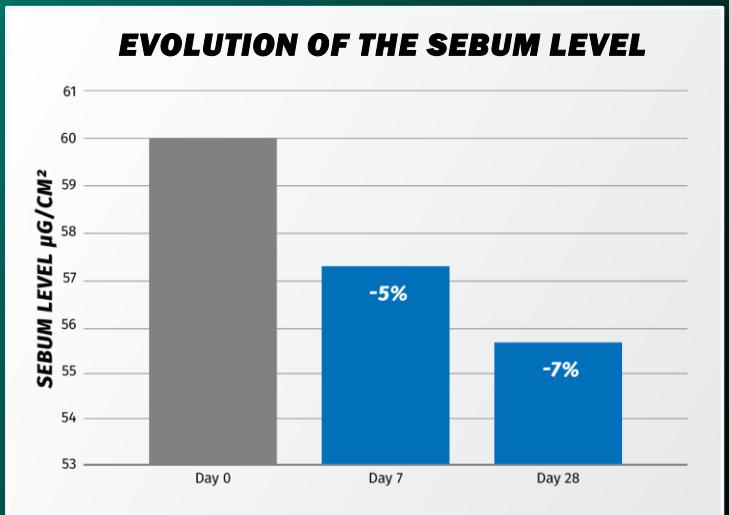
## SUGGESTED CONCENTRATION

1%



# EPIBIOME BEAUTY™ FOR NORMAL SKIN

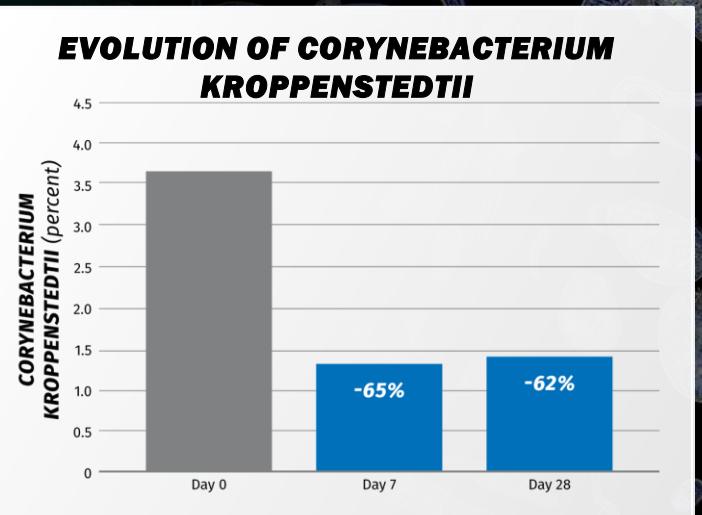
**OXY 229 PF REDUCES SEBUM LEVELS AND MINIMIZES CORYNEBACTERIUM KROPPENSTEDTII LEVELS FOR PREVENTING FACIAL REDNESS**



Sebum reduction on cheek skin  
after 1 week



Sebum reduction on cheek skin  
after 28 days



Corynebacterium Kroppenstedtii  
reduction on cheek skin  
after 1 week



Corynebacterium Kroppenstedtii  
reduction on cheek skin  
after 28 days

# OXY 229 PF REVIVES DULL-LOOKING SKIN



## UNIQUE PRODUCT FEATURES

- 98% natural origin (ISO16128)
- Made from the extraordinary Baker's yeast strain VdH2
- Contains powerful mitochondrial respiration activators
- Boosts oxygen uptake by up to 750%
- Induces cell viability by up to 10%
- Increases cell turnover activity by up to 25%

## INCI NAME (ACTIVE)

Saccharomyces Lysate, Valine, Threonine, Glutamic acid, Glycine, Disodium Succinate



## BENEFITS

- Revives dull-looking skin
- Makes skin feels smooth
- Keeps skin looking youthful
- Avoids facial redness

## COSMETIC APPLICATION

- Products with a focus on skin freshness and redness
- Revitalizing treatments
- Suitable for postbiotic skincare

## SUGGESTED CONCENTRATION

up to 5%



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