

Test report no.: 23.658.18.1

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The influence of the test product on the key organisms of the respective body region was examined.

### Information about the tested product:

### Manufacturer:

**True Botanicals** 

1 Lovell Avenue

CA 94941 Mill Valley

**USA** 

### Name of the product:

**Renew Nourishing Cleanser** 

**Product type:** Final product

**Application:** Rinse-off

**Dilution:** 33% in PBS

Sample received: 14 June 2023

**Test Start:** 15 June 2023

**Test End:** 27 July 2023

Test Standard: MyMicrobiome Standard 18.10 Face

Test result: 1.5

**Certification:** Granted



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### **Test description**

The MyMicrobiome Standard evaluates cosmetic and personal care products, that encounter the skin or mucous membrane, in terms of their influence on the microbiome located at a specific body site.

An intact skin microbiome has a fundamental influence on skin health. Products which are to be skin-friendly must also be Microbiome-friendly in order not to unbalance the skin of the user.

The MyMicrobiome Standard evaluates the influence of cosmetic and personal care products on the microbial key players of a specific skin or mucous membrane area. The human microbiome is very individual from person to person.

Each area, however, harbors a characteristic composition of bacteria, viruses and fungi. The test examines the products influence on the key organisms typical for each skin area and thus offers a standardized procedure.

#### Various aspects are examined:

### The microbial quality of the product.

### The influence of the product on the natural, healthy skin balance.

The skin-commensal bacterium *Staphylococcus epidermidis* keeps the skin with antimicrobial peptides (so-called bacteriocins) and pH adjustments healthy and keeps skin-harmful germs such as *Staphylococcus aureus* in check. The product should not disturb this balance between skin-friendly and skin-harmful bacteria. This sensitive balance is investigated in conjunction with the product.

#### The influence of the product on the bacterial diversity of the specific body region.

Each body region is colonized by a certain microbial composition. For a healthy skin it is particularly important to maintain this biodiversity. The influence of the product on the respective microbial mixture is examined in the test. The aim is to find as many key organisms as possible after contact with the product.

## The influence of the product on the growth behavior of the microbes of the specific body region.

In addition to the diversity of the specific microbiome, the growth or number of different key organisms should not be influenced by the product. This is investigated in a skin-product contact model. The key organisms are brought into direct and indirect contact with the product and their growth is observed.



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#### Results

## The microbial quality of the product.

The prerequisite for the test for microbial friendliness is the microbiological quality of the product. The following table contains the limit values that must be observed.

T	Limit values		
Types of organisms	Products specially designed for children under 3 years, eye area or mucous skins	Other products	
Total counts mesophilic, aerobic microorganisms (bacteria, yeasts, molds, (TAMC and TYMC))	≤1 x 10² cfu/g or ml³	≤1 x 10³ cfu/g or ml <sup>b</sup>	
Escherichia coli	Not detectable in 1g or 1 ml	Not detectable in 1g or 1 ml	
Pseudomonas aeruginosa	Not detectable in 1g or 1 ml	Not detectable in 1g or 1 ml	
Staphylococcus aureus	Not detectable in 1g or 1 ml	Not detectable in 1g or 1 ml	
Candida albicans	Not detectable in 1g or 1 ml	Not detectable in 1g or 1 ml	
a >200 cfu/g or ml, b >2000 cfu/g or ml			

## **Results Microbiological quality**

Determination of TAMC, TYMC, absence of E. coli, P. aeruginosa and S. aureus.

## The microbiological quality of the product according to DIN EN ISO 17516 is fulfilled.

Parameter	Sample no.: 23.658.18.1
TAMC [cfu/0,1 ml]	< 1,0E+01
TYMC (incl. Candida albicans) [in 0,1 ml]	negative
Escherichia coli [in 0,1 ml]	negative
Pseudomonas aeruginosa [in 0,1 ml]	negative
Staphylococcus aureus [in 0,1 ml]	negative

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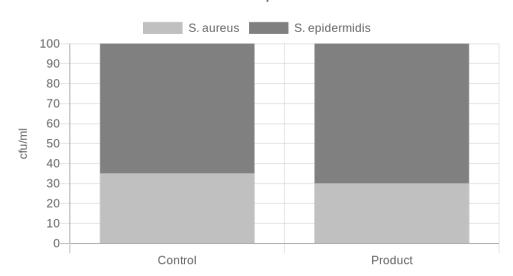
#### **Results**

## The influence of the product on the natural, healthy skin balance.

A co-culture of *S. epidermidis* and *S. aureus* is incubated with the product. The ratio of the two microbes to each other is determined.

Determination of the bacterial count at time t = 15 min (rinse-off) or 4h (leave-on).

#### S. aureus/S. epidermidis



	cfu	cfu/ml Ratio Product/		Crada	
	S. aureus	S. epidermidis	Control	Grade	
Control	1620	3000	1.2	1	
Product	1403.3	3260	1.3	T	



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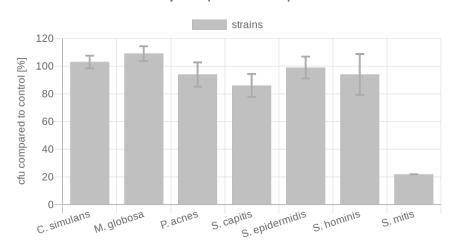
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## **Results - SEBACEOUS -**

## The influence of the product on the microbial diversity of the specific body region.

A co-culture of key organisms of the specific body region is incubated with the product for t = 15 min (rinse-off) or 4h (leave-on). The ratio of the microbes compared to the control (PBS) is determined.

#### Diversity in the presence of the product



Key-Microbe	t=	15min	Rating
		cfu/ml	
C. simulans	Control	1126.7	1
	Product	1160	] 1
M. globosa	Control	14466.7	1
confluence	Product	15833.3	1
P. acnes	Control	670	2
	Product	630	2
S. capitis	Control	140	2
	Product	120	2
S. epidermidis	Control	266.7	1
	Product	263.3	
S. hominis	Control	363.3	2
	Product	343.3	
S. mitis	Control	90	3
	Product	20	
Overall rating:			1.7



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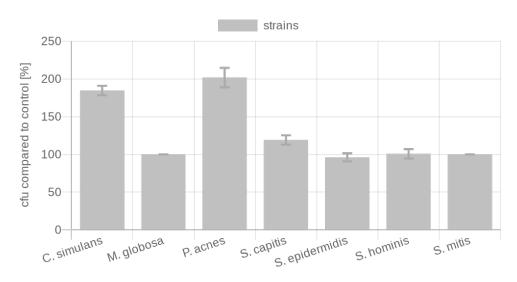
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### **Results - SEBACEOUS -**

# The influence of the product on the growth behavior of the microbes of the specific body region – directly.

The influence of the product on the growth of each individual microbe of the key organisms of the specific body region is investigated and put in relation to the control (PBS). Product contact with the microorganisms is directly.

#### Growth in the presence of the product - direct



Key-Microbe	cf	cfu/ml	
C. simulans	Control	488.7	3
C. Simulans	Product	902	3
M. globosa	Control	100	1
confluence	Product	100	1
D. genoe	Control	303	3
P. acnes	Product	611	3
S. capitis	Control	262.3	1
	Product	312.3	1
6	Control	439.3	1
S. epidermidis	Product	422	
S. hominis	Control	657	1
	Product	661.7	
S. mitis	Control	3000	1
	Product	3000	
Overall rating:			1.6



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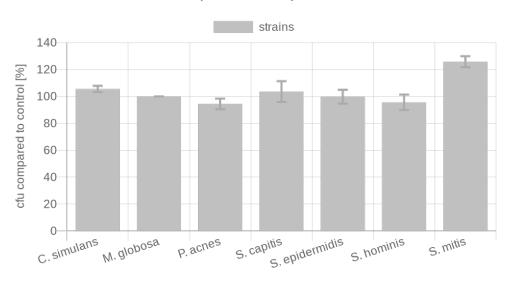
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#### **Results - SEBACEOUS -**

The influence of the product on the growth behavior of the microbes of the specific body region – indirectly.

The influence of the product on the growth of each individual microbe of the key organisms of the specific body region is investigated and put in relation to the control (PBS). The product contact to the microorganisms is indirect.

### Growth in the presence of the product - indirect



Key-Microbe		cfu/ml	
Caimulana	Control	563.7	1
C. simulans	Product	594.7	
M. globosa	Control	100	1
confluence	Product	100	1
D. wanne	Control	280.3	2
P. acnes	Product	264.7	2
S. capitis	Control	324.3	1
	Product	336	1
S. epidermidis	Control	415	1
	Product	414.3	
S. hominis	Control	684	1
	Product	653.7	
S. mitis	Control	2004.7	2
	Product	2521	2
Overall rating:			1.3



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### **Results**

The results are evaluated with grades from 1 (one) to 3 (three).

The product has passed up to grade 2.0.

Here the grade means:

## $1.0 - 2.0 = Microbiome-friendly \mid 2.1 - 3.0 = Microbiome-influencing$

Test	Grade
Balance of the skin microbiome	1
Diversity of the corresponding skin microbiome (x2)	1.7
Skin-product contact direct (x2)	1.6
Skin-product contact indirect	1.3
Overall grade	1.5

With an overall grade of 1.5 the seal "Microbiome-friendly" is awarded according to MyMicrobiome Standard 18.10 Face.

Place, Date: Balzers, 27 July 2023

Responsible person: Dr. Kristin Neumann

Signature: