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

Information about the tested product:

Manufacturer:
BEEKMAN 1802
8075 Beacon Lake Dr., Suite 100
32809 Orlando, FL
USA

Name of the product:
Milk RX Compress

Product type:	Final product
Application:	Leave-on
Dilution:	No
Sample received:	05 November 2024
Test Start:	22 November 2024
Test End:	19 December 2024
Test Standard:	**MyMicrobiome Standard 18.10 Face**
Test result:	**1.7**
Certification:	Granted

Test description

The MyMicrobiome Standard evaluates the influence of cosmetics, personal care products and pharmaceuticals on the microbial key players located at a specific skin or mucous membrane site.

An intact skin microbiome has a fundamental influence on skin health. Skin-friendly products must also be microbiome-friendly and ensure the maintenance of the balance among the skin microorganisms of the user.

Every person's microbiome is unique. Each body area, however, harbors a characteristic composition of bacteria, viruses and fungi. The test examines the product's 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.

To be evaluated according to our standard, the product needs to be free of contaminants. This is verified in the microbial quality test.

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

The skin-commensal bacterium *Staphylococcus epidermidi*s produces antimicrobial peptides (so-called bacteriocins) and regulates skin pH, which keeps harmful microorganisms, such as *Staphylococcus aureus* in check. The product should not disturb the balance between friendly and 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 set of microorganisms. For healthy microbiome, it is particularly important to maintain this biodiversity. The influence of the product on the respective microbial composition 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 microorganisms in a specific body area, the growth of the individual key organisms should not be influenced by the product. The key organisms are brought into direct and indirect contact with the product and their growth is observed.

Results

The microbiological quality of the product.

The prerequisite for the test for microbial friendliness is the microbiological quality of the product based on DIN ISO 17516. The following table contains the limit values for contaminants that must be observed.

Types of organisms	Limit values
Total aerobic microbial count (TAMC) and total combined yeasts/ moulds count (TYMC)	≤ 20 cfu*/g or ml

* colony forming units (cfu)

Results microbiological quality

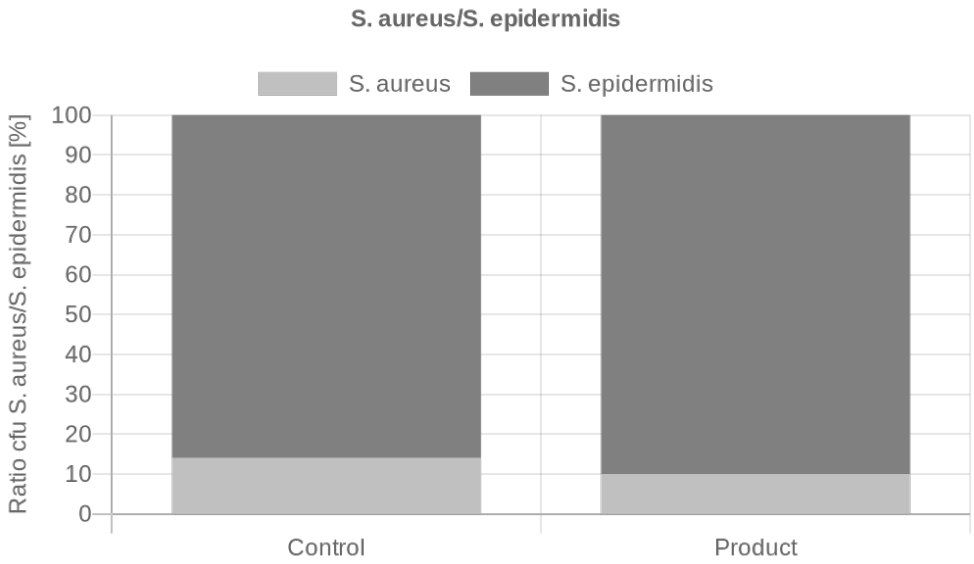
Parameter	Sample no.: 24.947.18.1
TAMC and TYMC [cfu/0,1 ml]	< 20

The microbiological quality of the product is fulfilled.

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 for 15 min (rinse-off) or 4h (leave-on). Bacterial counts are determined, the ratio of the two microbes to each other is assessed and compared to the control sample (PBS).

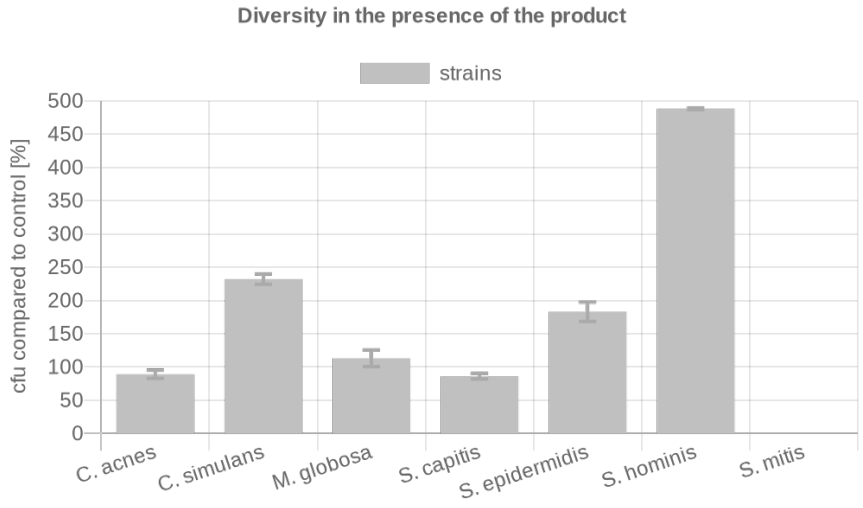


	cfu/ml		Ratio Product/ Control	Grade
	S. aureus	***S. epidermidis***		
Control	1900	11600	1.5	**1.0**
Product	1433.3	12866.7		

Results

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 15 min (rinse-off) or 4h (leave-on). Bacterial colonies are counted, and the ratio of the cfu in the presence of the product compared to the control (PBS) is determined.

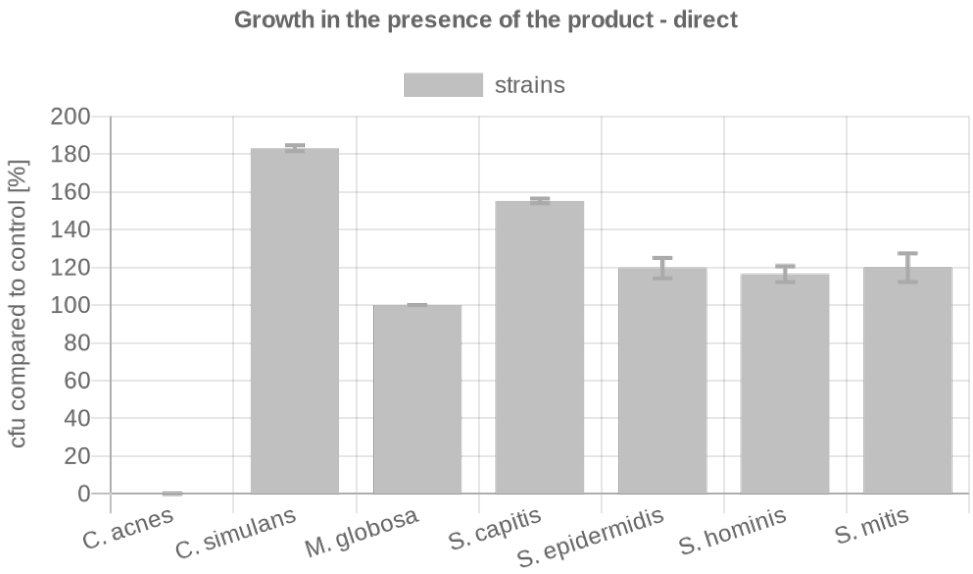


Key-Microbe	t=	4h	Rating
	cfu/ml		
C. acnes	Control	376.7	1
	Product	336.7	
C. simulans	Control	586.7	3
	Product	1360	
M. globosa confluence	Control	7000	1
	Product	7900	
S. capitis	Control	586.7	2
	Product	503.3	
S. epidermidis	Control	1763.3	3
	Product	3233.3	
S. hominis	Control	866.7	3
	Product	4233.3	
S. mitis	Control		
	Product		
Overall rating:			**2.2**

Results

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

The influence of the product on the growth of each individual key organism of the specific body region is investigated and the ratio of the cfu in the presence of the product is calculated in % relative to the control sample (PBS). Product contact with the microorganisms is direct.

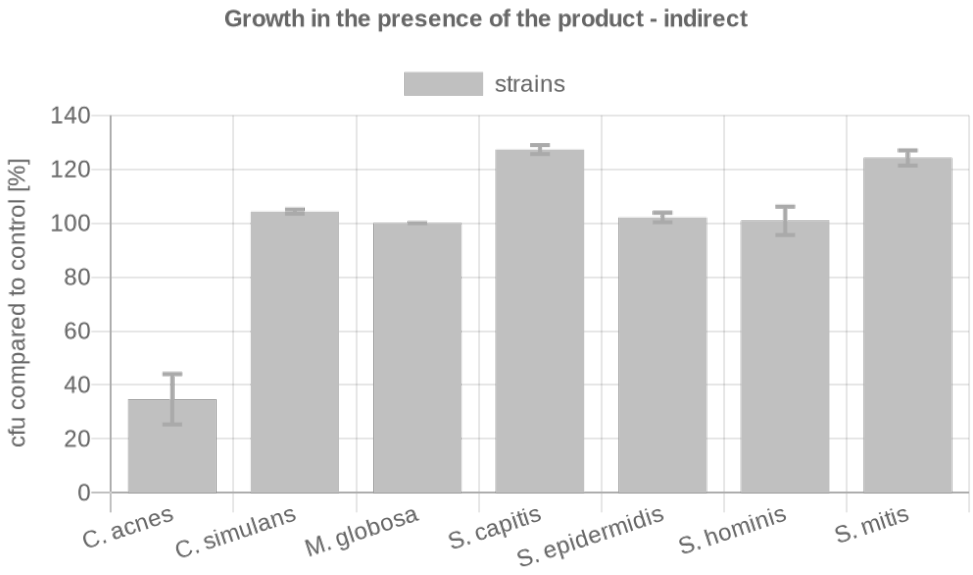


Key-Microbe	cfu/ml		Rating
C. acnes	Control	254.3	3
	Product	0	
C. simulans	Control	573.7	3
	Product	1050.5	
M. globosa confluence	Control	100	1
	Product	100	
S. capitis	Control	1070.7	2
	Product	1661.5	
S. epidermidis	Control	1227.7	1
	Product	1468.5	
S. hominis	Control	518.7	1
	Product	604	
S. mitis	Control	121	1
	Product	145	
Overall rating:			**1.7**

Results

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 key organism of the specific body region is investigated and the ratio of the cfu in the presence of the product is calculated in % relative to the control sample (PBS). Product contact with the microorganisms is indirect.



Key-Microbe	cfu/ml		Rating
C. acnes	Control	219	3
	Product	76	
C. simulans	Control	422.3	1
	Product	440.5	
M. globosa confluence	Control	100	1
	Product	100	
S. capitis	Control	270	2
	Product	343.7	
S. epidermidis	Control	437.5	1
	Product	446.5	
S. hominis	Control	462.7	1
	Product	466.7	
S. mitis	Control	60	1
	Product	74.5	
Overall rating:			**1.4**

Results

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

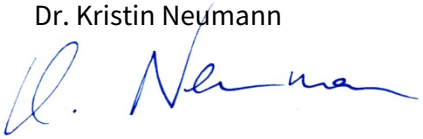
The product has passed if it obtains grades between 1.0 and 2.0.

1.0 – 2.0 = Microbiome-friendly | 2.1 – 3.0 = Microbiome-influencing

Test	Grade
Balance of the skin microbiome	1.0
Diversity of the corresponding skin microbiome (x2)	2.2
Skin-product contact direct (x2)	1.7
Skin-product contact indirect	1.4
Overall grade	**1.7**

With an overall grade of 1.7 the seal „Microbiome-friendly“ is awarded according to MyMicrobiome Standard 18.10 Face.

Place, Date: Balzers, 20 January 2025

Responsible person: Dr. Kristin Neumann

Signature: