

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

Information about the tested product:

Manufacturer:
Water Wipes UC
Donore RD.
Drogheda, Co. Louth A92 VX00
Ireland



Name of the product:
WaterWipes™

Product class:

Rinse Off

Leave On

Standard:

- Face / Eyes
MyMicrobiome Standard 18.10
- Lips
MyMicrobiome Standard 18.10
- Body / Neck / Chest / Hands
MyMicrobiome Standard 18.10
- Back
MyMicrobiome Standard 18.10
- Bottom / Thighs
MyMicrobiome Standard 18.10
- Axillary vault
MyMicrobiome Standard 18.10

- Scalp
MyMicrobiome Standard 19.10
- Infant skin
MyMicrobiome Standard 20.10
- Vaginal tract
MyMicrobiome Standard 21.10
- Feet
MyMicrobiome Standard 22.10
- Mouth
MyMicrobiome Standard 23.10
- Nasal mucosa
MyMicrobiome Standard 24.10

Sample receipt: 24. March 2022
Test period: 25. March - 29. June 2022

Test result: 1.6
Approved yes/no: yes; June 29, 2022

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 microbial 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.

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.

Types of organisms	Limit values	
	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))	$\leq 1 \times 10^2$ cfu/g or ml ^a	$\leq 1 \times 10^3$ cfu/g or ml ^b
<i>Escherichia coli</i>	Not detectable in 1g or 1 ml	Not detectable in 1g or 1 ml
<i>Pseudomonas aeruginosa</i>	Not detectable in 1g or 1 ml	Not detectable in 1g or 1 ml
<i>Staphylococcus aureus</i>	Not detectable in 1g or 1 ml	Not detectable in 1g or 1 ml
<i>Candida albicans</i>	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*.

Parameter	Sample no.: 220.511.3
TAMC [cfu/0,1 ml]	< 1,0E+01
TYMC (incl. <i>Candida albicans</i>) [in 0,1 ml]	negative
<i>Escherichia coli</i> [in 0,1 ml]	negative
<i>Pseudomonas aeruginosa</i> [in 0,1 ml]	negative
<i>Staphylococcus aureus</i> [in 0,1 ml]	negative

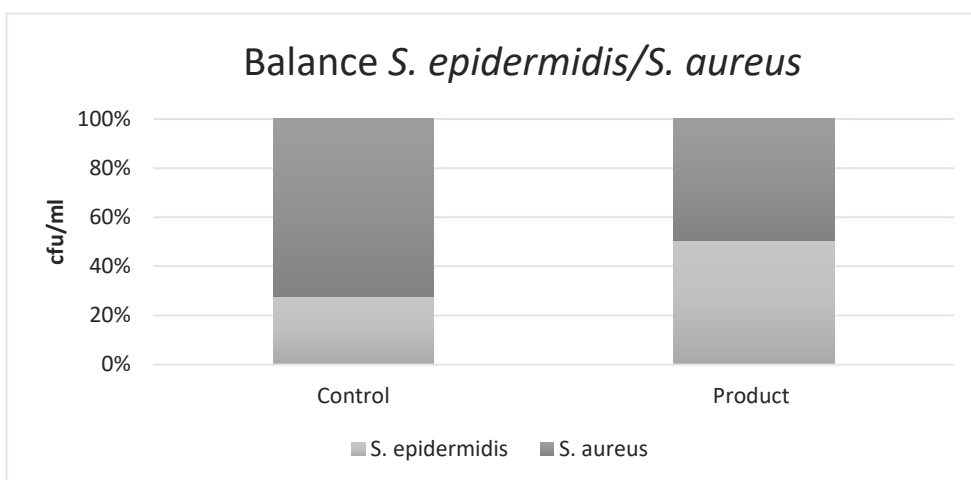
The microbiological quality of the product according to DIN EN ISO 17516 is fulfilled.

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. The ratio of the two microbes to each other is determined.

Determination of the bacterial count at time t = 4 h

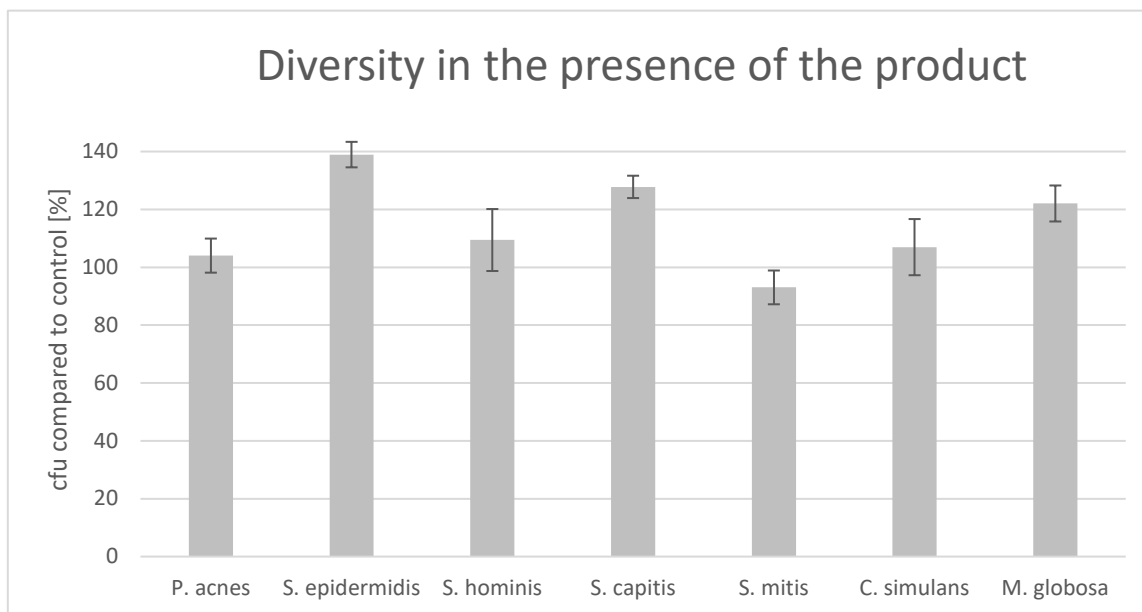


	cfu/ml		Ratio Product/ Control	Grade
	<i>S. epidermidis</i>	<i>S. aureus</i>		
Control	3.5E+03	9.2E+03	2.7	1.0
Product	3.3E+02	3.2E+02		

Results - SEBACEOUS SKIN -

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 4h. The ratio of the microbes compared to the control (PBS) is determined.

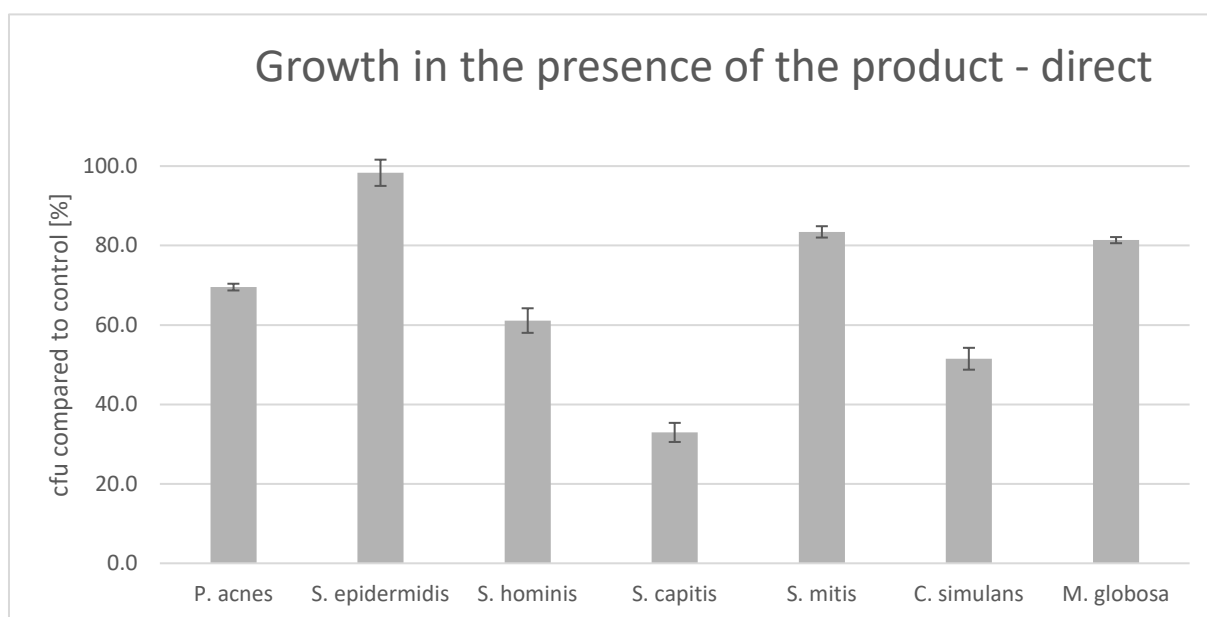


Key-Microbe	t=	4 h	Rating
	cfu/ml		
<i>P. acnes</i>	Control	1.7E+03	1
	Product	1.8E+03	
<i>S. epidermidis</i>	Control	2.5E+03	2
	Product	3.5E+03	
<i>S. hominis</i>	Control	1.6E+03	1
	Product	1.8E+03	
<i>S. capitis</i>	Control	2.1E+03	2
	Product	2.7E+03	
<i>S. mitis</i>	Control	3.8E+03	1
	Product	3.6E+03	
<i>C. simulans</i>	Control	1.0E+03	1
	Product	1.1E+03	
<i>M. globosa</i>	Control	1.4E+03	1
	Product	1.7E+03	
Overall rating:			1.3

Results - SEBACEOUS SKIN -

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.

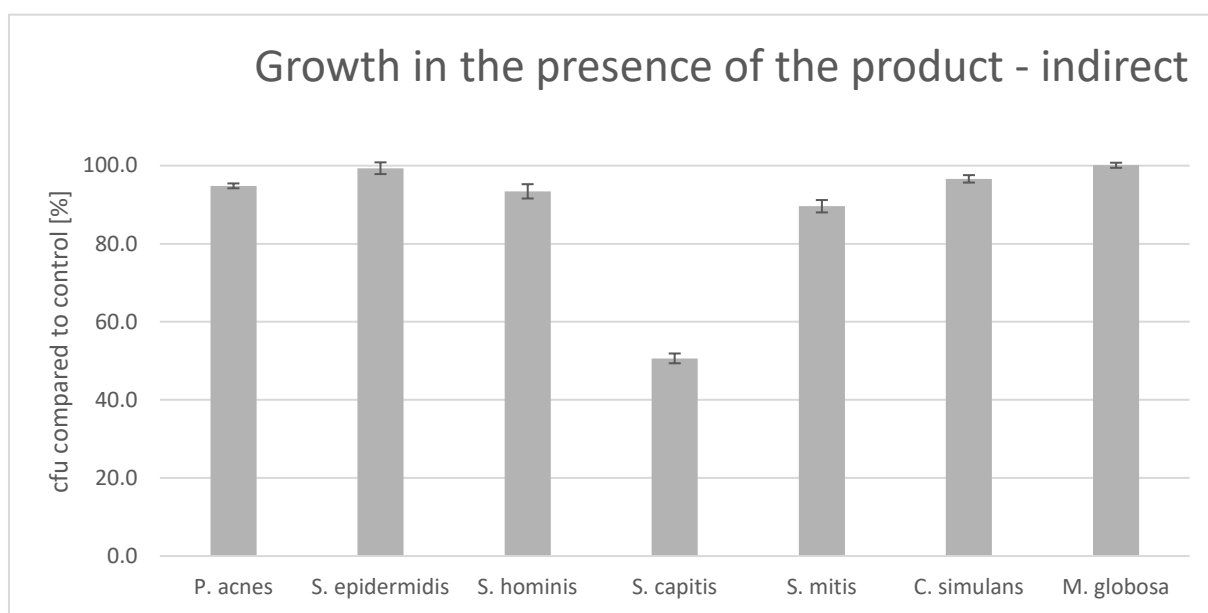


Key-Microbe	cfu /Plate		Rating
<i>Propionibacterium acnes</i>	Control	1037.3	2
	Product	721.3	
<i>Staphylococcus epidermidis</i>	Control	396.0	1
	Product	389.3	
<i>S. hominis</i>	Control	480.0	3
	Product	293.3	
<i>S. capitis</i>	Control	1270.7	3
	Product	418.7	
<i>S. mitis</i>	Control	845.3	2
	Product	705.3	
<i>C. simulans</i>	Control	846.7	3
	Product	436.0	
<i>M. globosa</i>	Control	1273.3	2
	Product	1036.0	
Overall rating:			2.3

Results - SEBACEOUS SKIN -

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.

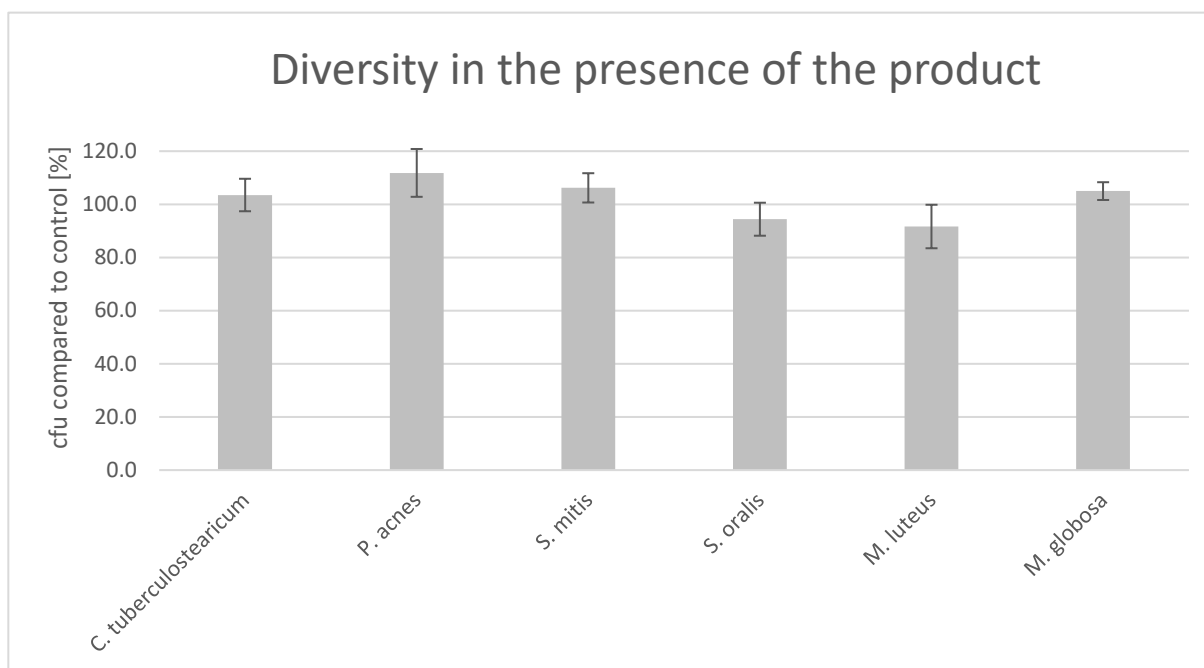


Key-Microbe	cfu /Plate		Rating
<i>Propionibacterium acnes</i>	Control	1032.0	2
	Product	978.7	
<i>Staphylococcus epidermidis</i>	Control	409.3	1
	Product	406.7	
<i>S. hominis</i>	Control	486.7	2
	Product	454.7	
<i>S. capitis</i>	Control	1256.0	3
	Product	636.0	
<i>S. mitis</i>	Control	860.0	2
	Product	770.7	
<i>C. simulans</i>	Control	869.3	1
	Product	840.0	
<i>M. globosa</i>	Control	1277.3	1
	Product	1278.7	
Overall rating:			1.7

Results - DRY SKIN -

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 4 h. The ratio of the bacteria compared to the control (PBS) is determined.

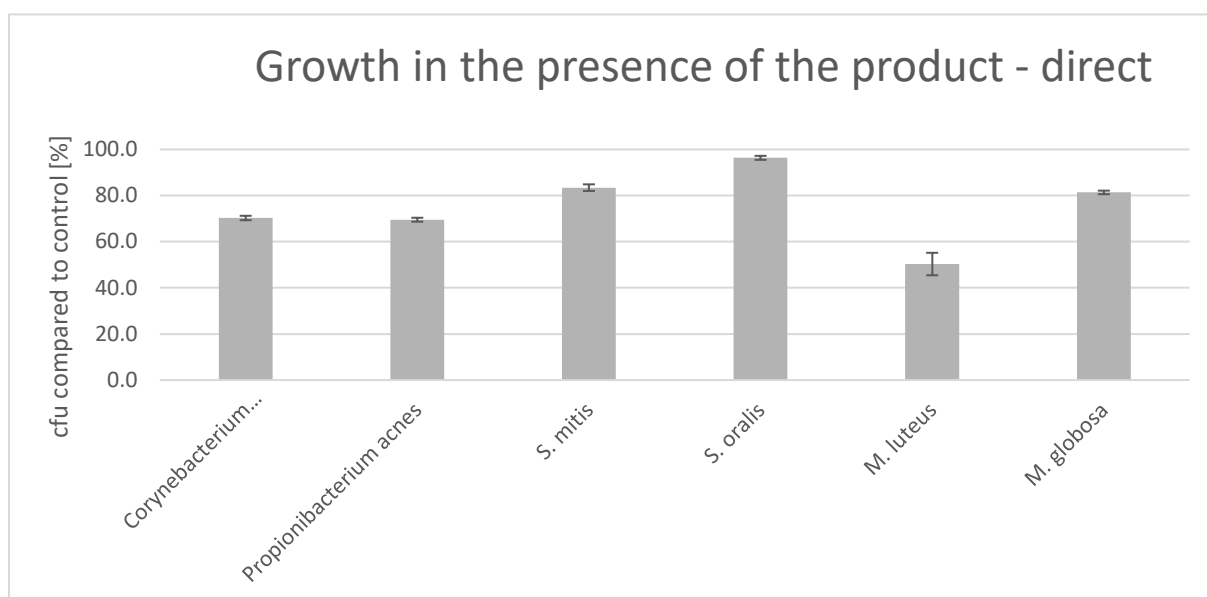


Key-Microbe	t=	4 h	Rating
	cfu/ml		
<i>C. tuberculoostearicum</i>	Control	5.7E+02	1.0
	Product	5.9E+02	
<i>P. acnes</i>	Control	1.4E+03	1.0
	Product	1.5E+03	
<i>S. mitis</i>	Control	4.3E+03	1.0
	Product	4.6E+03	
<i>S. oralis</i>	Control	1.5E+03	1.0
	Product	1.4E+03	
<i>M. luteus</i>	Control	1.8E+03	2.0
	Product	1.6E+03	
<i>M. globosa</i>	Control	8.7E+02	1.0
	Product	9.1E+02	
Overall rating:			1.2

Results - DRY SKIN -

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.

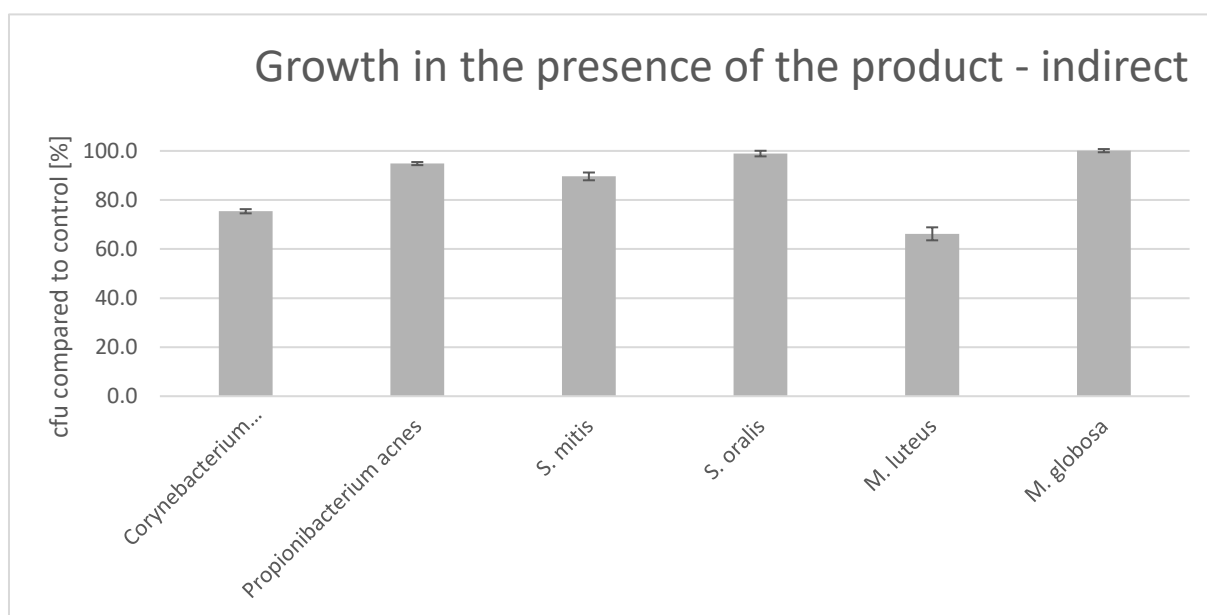


Key-Microbe	cfu /Plate		Rating
<i>Corynebacterium tuberculostearicum</i>	Control	1233.3	2
	Product	866.7	
<i>Propionibacterium acnes</i>	Control	1037.3	2
	Product	721.3	
<i>S. mitis</i>	Control	845.3	2
	Product	705.3	
<i>S. oralis</i>	Control	732.0	1
	Product	705.3	
<i>M. luteus</i>	Control	429.3	3
	Product	216.0	
<i>M. globosa</i>	Control	1273.3	2
	Product	1036.0	
Overall rating:			2.0

Results - DRY SKIN -

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.



Key-Microbe	cfu /Plate		Rating
<i>Corynebacterium tuberculostearicum</i>	Control	1241.3	2
	Product	936.0	
<i>Propionibacterium acnes</i>	Control	1032.0	2
	Product	978.7	
<i>S. mitis</i>	Control	860.0	2
	Product	770.7	
<i>S. oralis</i>	Control	738.7	1
	Product	730.7	
<i>M. luteus</i>	Control	428.0	2
	Product	283.3	
<i>M. globosa</i>	Control	1277.3	1
	Product	1278.7	
Overall rating:			1.7

Results

The results are evaluated with grades from 1 (one) to 3 (three). If the product shows no or positive influence on the above-mentioned aspects, a grade of 1 is awarded respectively.

If only a very weak negative influence can be detected in the tests, the grade 2 is awarded and in case of a clearly negative influence, the product receives the grade 3.

The product has passed up to grade 2.

Here the grade means

1.0 - 2.0 = Microbiome-friendly; 2.1 - 3.0 = Microbiome-damaging.

Test	Grade
Balance of the skin microbiome	1.0
Diversity of the corresponding skin microbiome (x2) (sebaceous)	1.3
Diversity of the corresponding skin microbiome (x2) (dry)	1.2
Skin-product contact direct (x2) (sebaceous)	2.3
Skin-product contact direct (x2) (dry)	2.0
Skin-product contact indirect (sebaceous)	1.7
Skin-product contact indirect (dry)	1.7
Overall grade	1.6

With an overall grade of 1.6 the seal „Microbiome-friendly“ is awarded according to MyMicrobiome Standard 18.10.

Place, Date: Balzers, June 29, 2022

Responsible person: Dr. Kristin Neumann

Signature:

