

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

Information about the tested product:

Manufacturer:

Roquette Frères

1 rue de la Haute Loge

62136 Lestrem

France

Name of the product:

Beauté by Roquette® LS 007, pH 6.0

Product type:

☐ Final Product

☒ Ingredient

Application:

☐ Rinse Off

☒ Leave On

Standard:

☒ Face/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

☐ Nose

MyMicrobiome Standard 24.10

Sample receipt: 16 December 2022

Test result: 2.0

Test period: 19 December 2022 – 11 January 2023

Approved yes/no: yes; 13 January 2023

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.

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*.

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

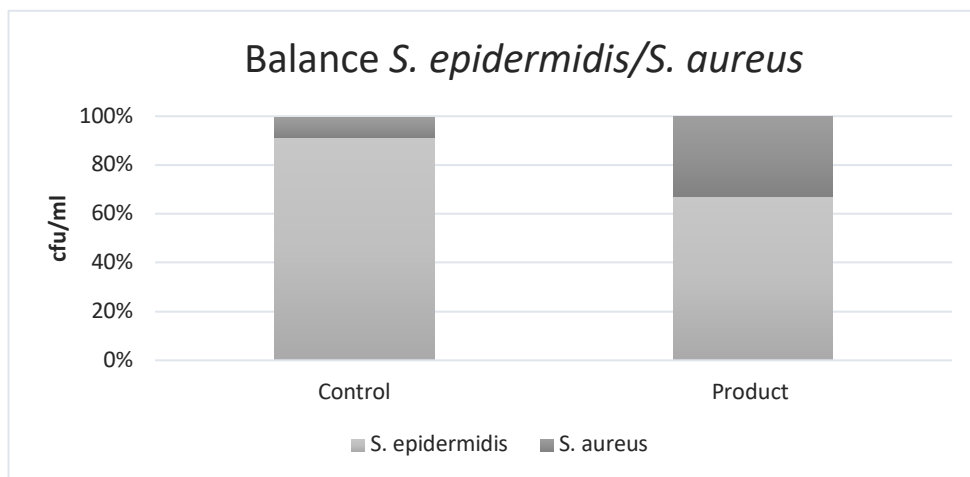
Parameter	Sample no.: 230.153.5
TAMC [cfu/0,1 ml]	< 1,0E+01
TYMC (incl. <i>Candida albicans</i>) [in 0,1 ml]	negative
<i>Escherichia coli</i> [in 0,1 ml]	negative
<i>Pseudomonas aeruginosa</i> [in 0,1 ml]	negative
<i>Staphylococcus aureus</i> [in 0,1 ml]	negative

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).

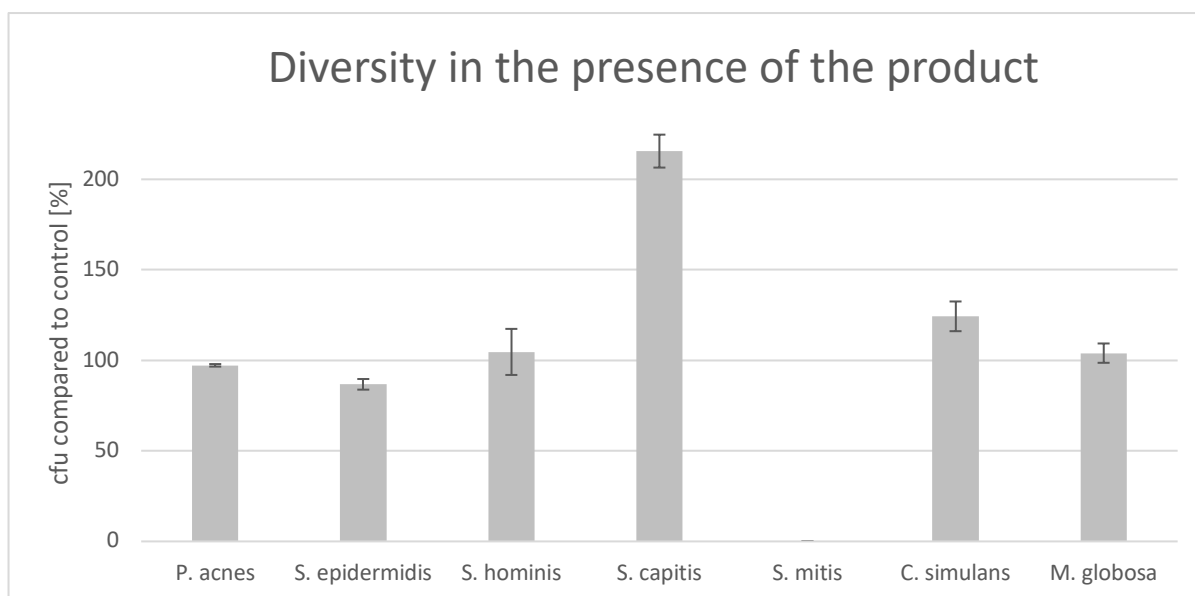


	cfu/ml		Ratio Product/ Control	Grade
	<i>S. epidermidis</i>	<i>S. aureus</i>		
Control	2.1E+03	2.0E+02	0.2	3.0
Product	2.8E+03	1.4E+03		

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 t = 15 min (rinse-off) or 4h (leave-on). The ratio of the bacteria compared to the control (PBS) is determined.

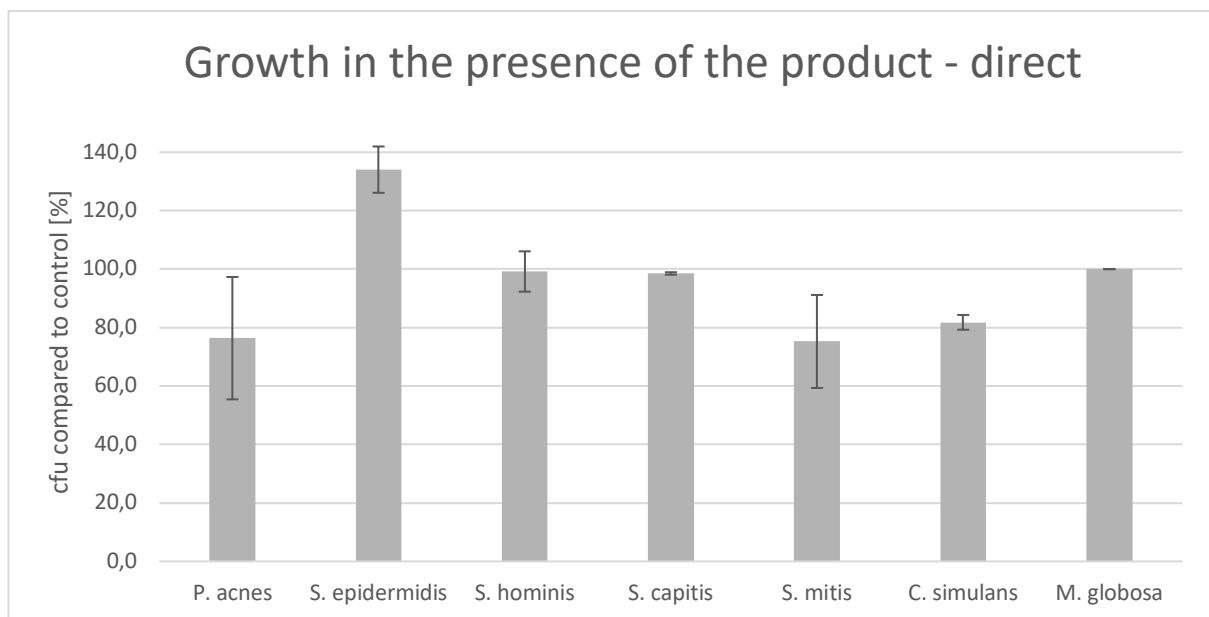


Key-Microbe	t=	4h	Rating
	cfu/ml		
<i>P. acnes</i>	Control	8.5E+02	1
	Product	8.3E+02	
<i>S. epidermidis</i>	Control	9.1E+02	2
	Product	7.9E+02	
<i>S. hominis</i>	Control	5.0E+02	1
	Product	5.2E+02	
<i>S. capitis</i>	Control	5.1E+02	3
	Product	1.1E+03	
<i>S. mitis</i>	Control	3.1E+02	3
	Product	0.0E+00	
<i>C. simulans</i>	Control	2.5E+02	1
	Product	3.1E+02	
<i>M. globosa</i>	Control	3.1E+04	1
	Product	3.2E+04	
Overall rating:			1.7

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.

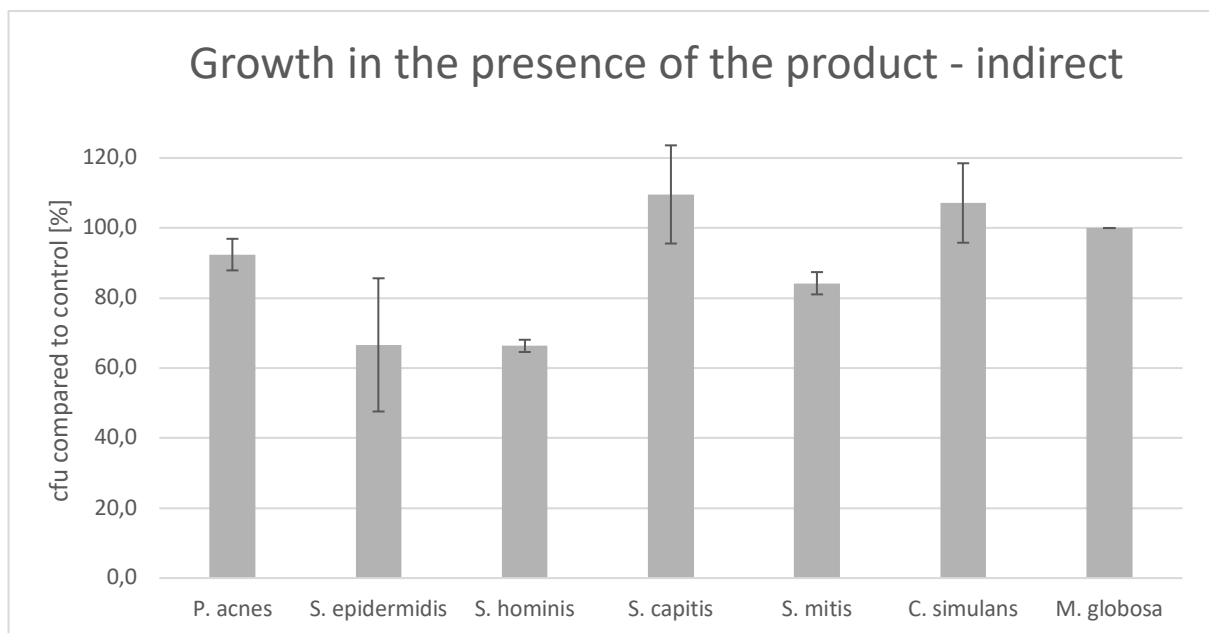


Key-Microbe	cfu /Plate		Rating
<i>P. acnes</i>	Control	1088.0	2
	Product	831.0	
<i>S. epidermidis</i>	Control	352.5	2
	Product	472.5	
<i>S. hominis</i>	Control	413.3	1
	Product	410.0	
<i>S. capitis</i>	Control	169.0	1
	Product	166.5	
<i>S. mitis</i>	Control	594.0	2
	Product	447.0	
<i>C. simulans</i>	Control	1364.7	2
	Product	1116.3	
<i>M. globosa</i>	Control	1.0	1
	Product	1.0	
Overall rating:			1.6

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.

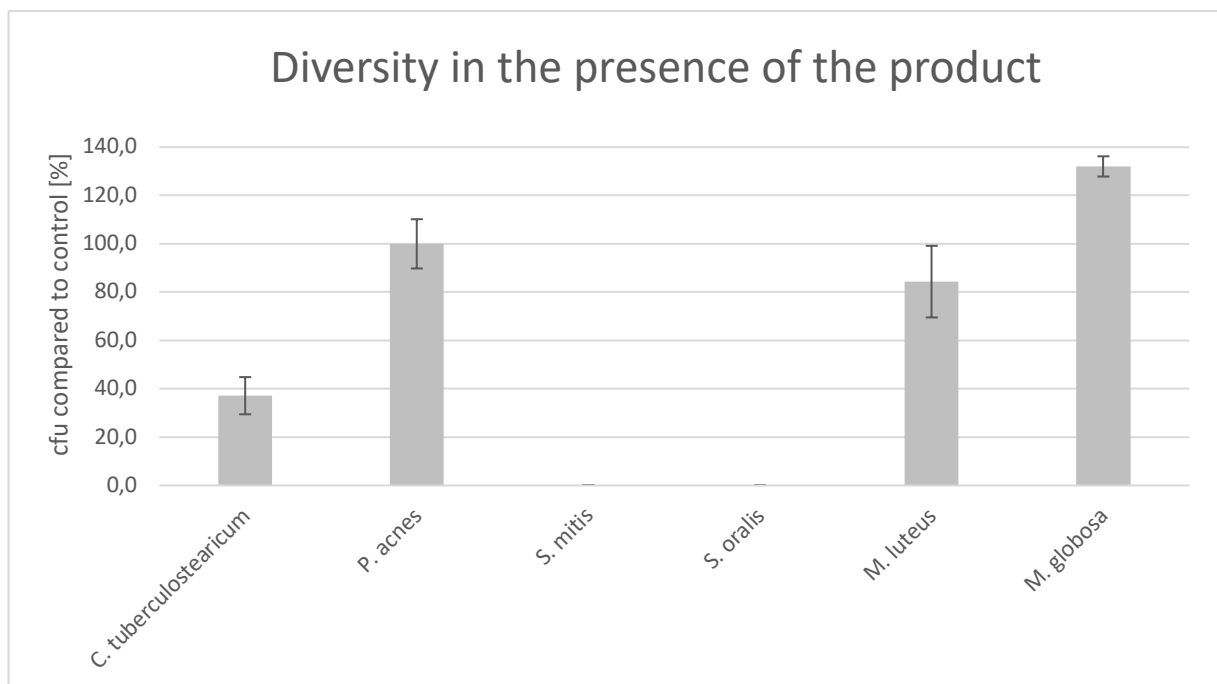


Key-Microbe	cfu /Plate		Rating
<i>P. acnes</i>	Control	1045.3	2
	Product	966.0	
<i>S. epidermidis</i>	Control	433.3	2
	Product	288.7	
<i>S. hominis</i>	Control	434.7	2
	Product	288.3	
<i>S. capitis</i>	Control	288.3	1
	Product	316.0	
<i>S. mitis</i>	Control	659.3	2
	Product	555.3	
<i>C. simulans</i>	Control	1053.3	1
	Product	1128.7	
<i>M. globosa</i>	Control	1.0	1
	Product	1.0	
Overall rating:			1.6

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 t = 15 min (rinse-off) or 4h (leave-on). The ratio of the microbes compared to the control (PBS) is determined.

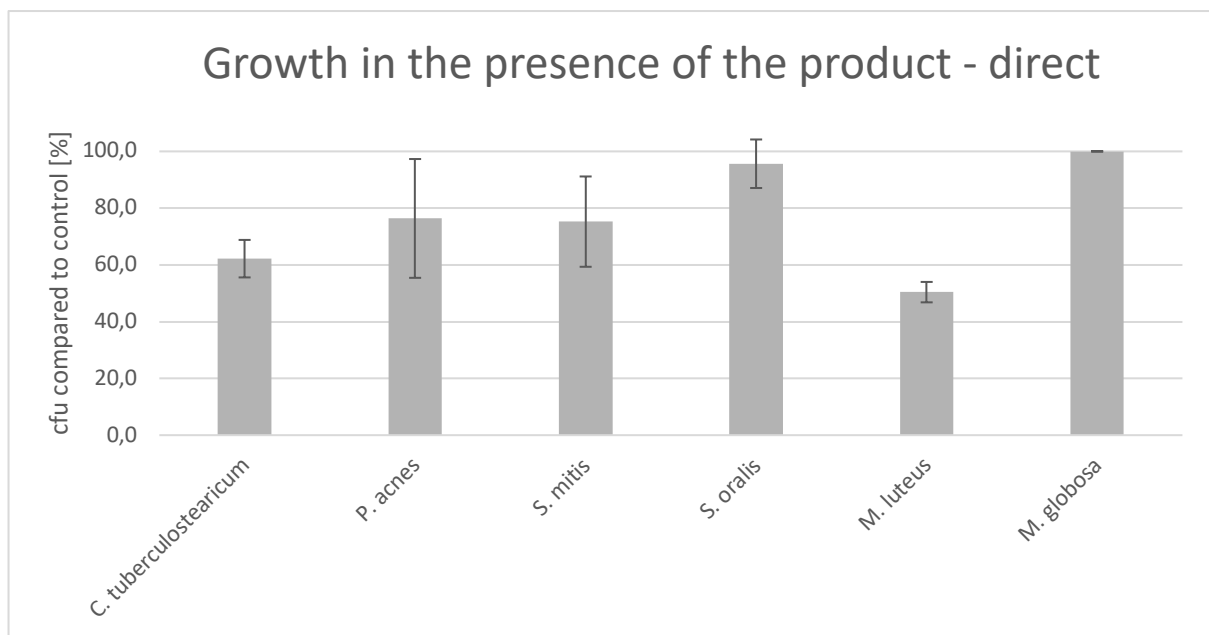


Key-Microbe	t=	4h	Rating
	cfu/ml		
<i>C. tuberculo</i> <i>stearicum</i>	Control	3.5E+02	3
	Product	1.3E+02	
<i>P. acnes</i>	Control	8.5E+02	1
	Product	8.5E+02	
<i>S. mitis</i>	Control	7.9E+02	3
	Product	0.0E+00	
<i>S. oralis</i>	Control	1.0E+04	3
	Product	0.0E+00	
<i>M. luteus</i>	Control	1.5E+03	2
	Product	1.2E+03	
<i>M. globosa</i>	Control	6.0E+04	2
	Product	7.9E+04	
Overall rating:			2.3

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.

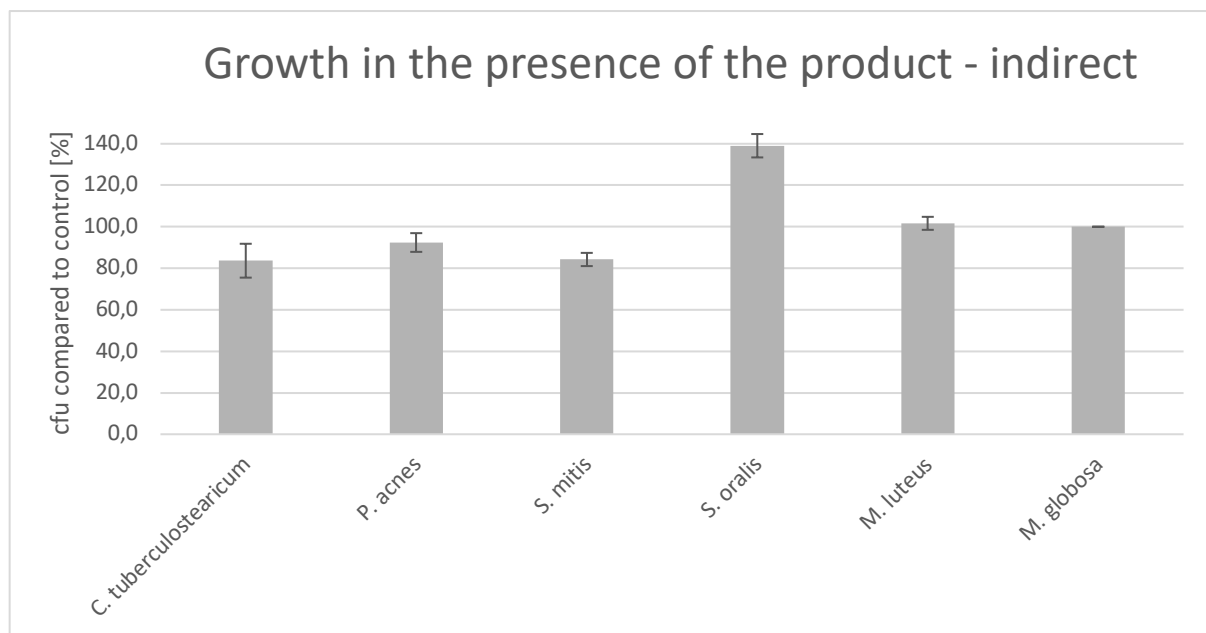


Key-Microbe	cfu /Plate		Rating
<i>C. tuberculoostearicum</i>	Control	1870.3	3
	Product	1163.3	
<i>P. acnes</i>	Control	1088.0	2
	Product	831.0	
<i>S. mitis</i>	Control	594.0	2
	Product	447.0	
<i>S. oralis</i>	Control	973.0	1
	Product	930.7	
<i>M. luteus</i>	Control	3705.3	3
	Product	1867.7	
<i>M. globosa</i>	Control	1.0	1
	Product	1.0	
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>C. tuberculostrictum</i>	Control	1536.3	2
	Product	1285.0	
<i>P. acnes</i>	Control	1045.3	2
	Product	966.0	
<i>S. mitis</i>	Control	659.3	2
	Product	555.3	
<i>S. oralis</i>	Control	986.7	2
	Product	1372.0	
<i>M. luteus</i>	Control	2485.3	1
	Product	2526.3	
<i>M. globosa</i>	Control	1.0	1
	Product	1.0	
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 to 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 2.0.

Here the grade means

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

Test	Grade
Balance of the skin microbiome	3.0
Diversity of the corresponding skin microbiome (sebaceous, x2)	1.7
Diversity of the corresponding skin microbiome (dry, x2)	2.3
Skin-product contact direct (sebaceous, x2)	1.6
Skin-product contact direct (dry, x2)	2.0
Skin-product contact indirect (sebaceous)	1.6
Skin-product contact indirect (dry)	1.7
Overall grade	2.0

With an overall grade of 2.0 the seal „Microbiome-friendly“ is awarded according to MyMicrobiome Standard 18.11.

Place, Date: Balzers, 13 January 2023

Responsible person: Dr. Kristin Neumann

Signature:

A handwritten signature in blue ink, appearing to read "Dr. Neumann", is written over a faint, light blue rectangular stamp.