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

Information about the tested product:

Manufacturer:
Lumerie Blue Green Beauty, LLC DBA Phosis, LLC
2701 Kavanaugh Blvd, Suite 301
AR 72205 Little Rock
USA

Name of the product:
Luminous Ultrafine Revitalizing Face Oil

Product type:	Final product
Application:	Leave-on
Dilution:	No
Sample received:	23 October 2023
Test Start:	25 November 2023
Test End:	16 November 2023
Test Standard:	**MyMicrobiome Standard 18.10 Face**
Test result:	**1.8**
Certification:	Granted

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 epidermidi*s 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))	≤ 1 x 10^2 cfu/g or ml[a]	≤ 1 x 10^3 cfu/g or ml[b]
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. aeruginos*a and *S. aureus.*

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

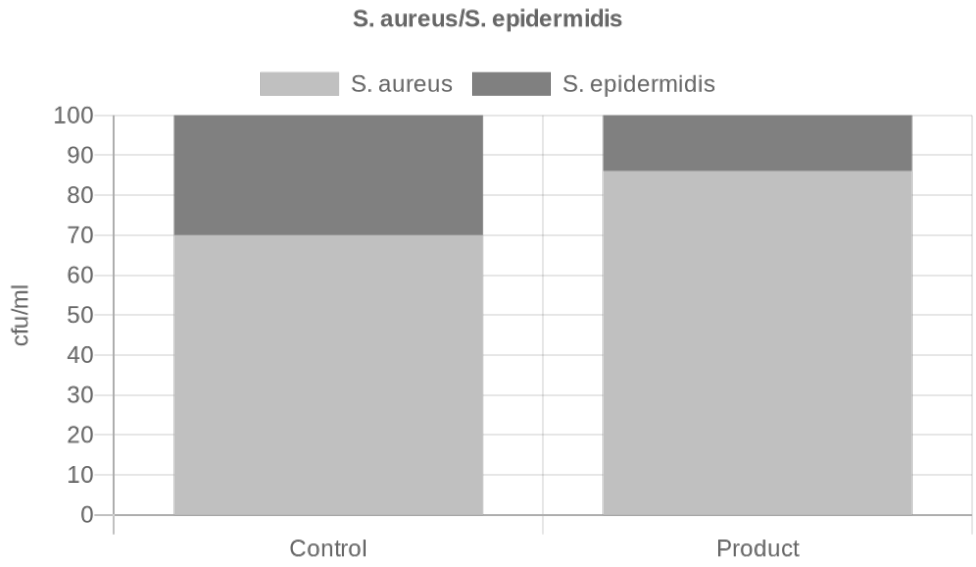
Parameter	Sample no.: 23.764.18.1
TAMC [cfu/0,1 ml]	< 1,0E+01
TYMC (incl. *Candida albicans*) [in 0,1 ml]	negative
***Escherichia coli* [in 0,1 ml]**	negative
***Pseudomonas aeruginosa* [in 0,1 ml]**	negative
***Staphylococcus aureus* [in 0,1 ml]**	negative

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).

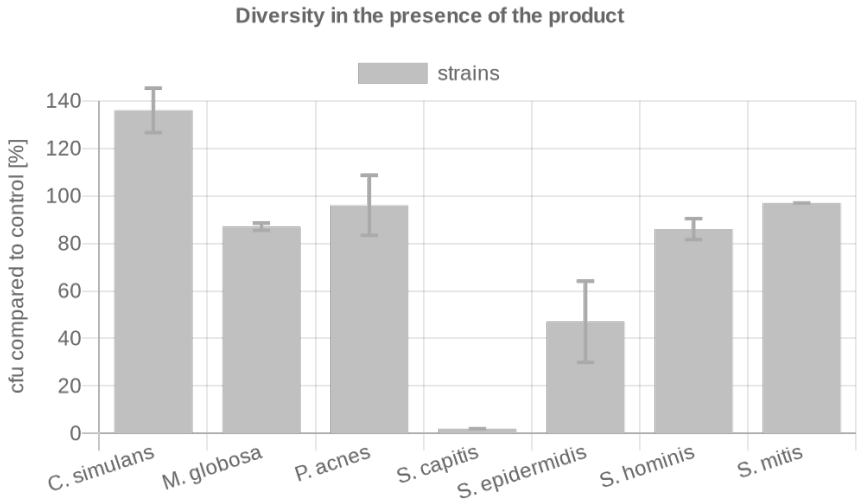


	cfu/ml		Ratio Product/ Control	Grade
	S. aureus	***S. epidermidis***		
Control	64533.3	28000	0.4	**3**
Product	27533.3	4500		

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.

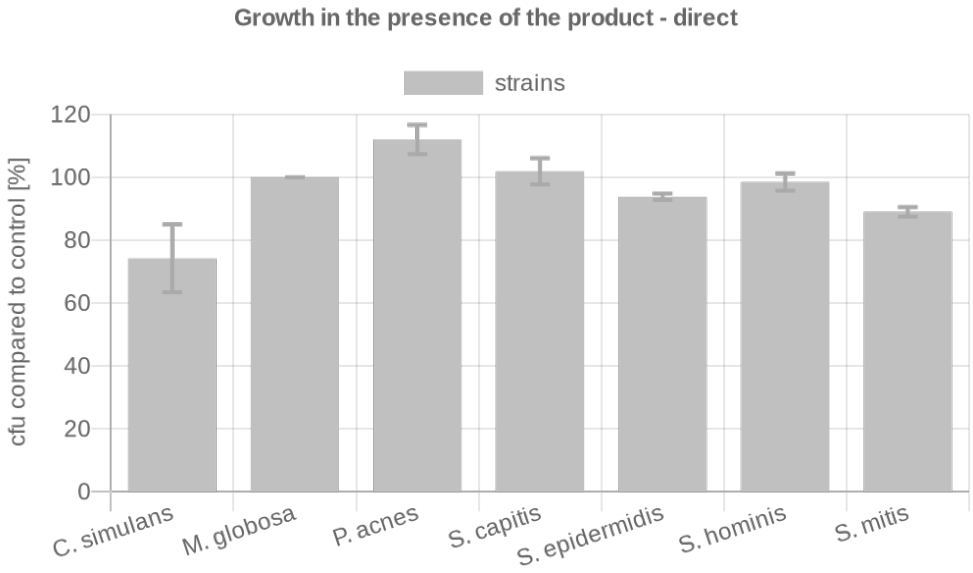


Key-Microbe	t=	4h	Rating
	cfu/ml		
C. simulans	Control	1100	2
	Product	1500	
M. globosa confluence	Control	21800	2
	Product	19000	
P. acnes	Control	543.3	1
	Product	520	
S. capitis	Control	4400	3
	Product	100	
S. epidermidis	Control	5000	3
	Product	2366.7	
S. hominis	Control	10600	2
	Product	9133.3	
S. mitis	Control	2666.7	1
	Product	2600	
Overall rating:			**2**

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.

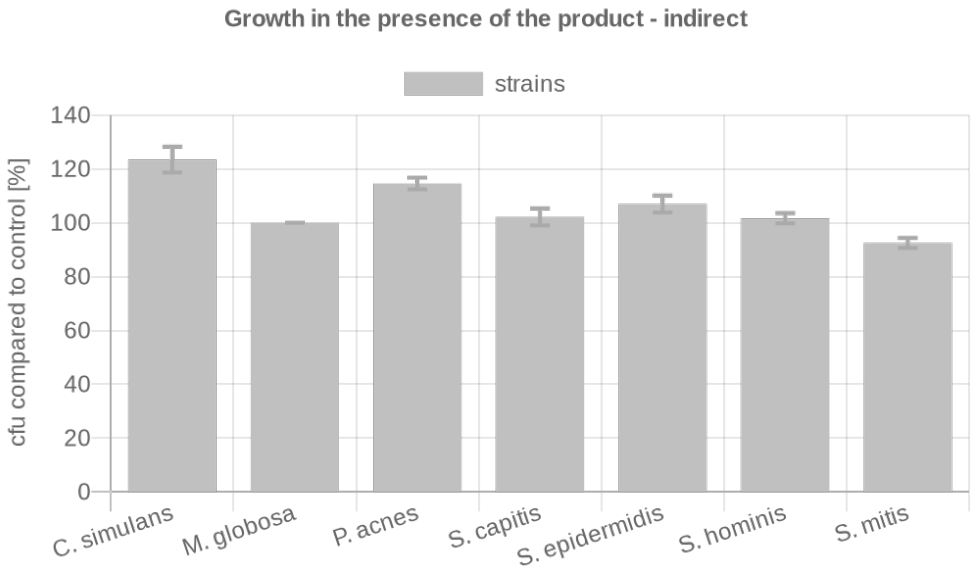


Key-Microbe	cfu/ml		Rating
C. simulans	Control	218	2
	Product	161.7	
M. globosa confluence	Control	100	1
	Product	100	
P. acnes	Control	297.7	1
	Product	333.3	
S. capitis	Control	400.3	1
	Product	408	
S. epidermidis	Control	445.3	2
	Product	417.7	
S. hominis	Control	481.7	1
	Product	474.3	
S. mitis	Control	366	2
	Product	325.7	
Overall rating:			**1.4**

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.



Key-Microbe	cfu/ml		Rating
C. simulans	Control	119.3	1
	Product	147.3	
M. globosa confluence	Control	100	1
	Product	100	
P. acnes	Control	213.7	1
	Product	245	
S. capitis	Control	384.7	1
	Product	393	
S. epidermidis	Control	399	1
	Product	427	
S. hominis	Control	513	1
	Product	521.7	
S. mitis	Control	309.3	2
	Product	286	
Overall rating:			**1.1**

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 | 2.1 – 3.0 = Microbiome-influencing

Test	Grade
Balance of the skin microbiome	3
Diversity of the corresponding skin microbiome (x2)	2
Skin-product contact direct (x2)	1.4
Skin-product contact indirect	1.1
Overall grade	**1.8**

With an overall grade of 1.8 the seal „Microbiome-friendly“ is awarded according to MyMicrobiome Standard 18.10 Face.

Place, Date: Balzers, 16 November 2023

Responsible person: Dr. Kristin Neumann

Signature: