

Test report no.: 220.421.8

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

Information about the tested product:

Manufacturer:

Dermosciences LTD

22 Northumberland road

Dublin D04 ED73

Ireland

Name of the product:

Oxybiome

Product class:

Rinse Off

Standard:

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

X Leave On

Scalp

MyMicrobiome Standard 19.10

O Infant skin

MyMicrobiome Standard 20.10

O Vaginal tract

MyMicrobiome Standard 21.10

Feet

MyMicrobiome Standard 22.10

Mouth

MyMicrobiome Standard 23.10

Nasal mucosa

MyMicrobiome Standard 24.10

Sample receipt: 18 January 2022

Test period: 14 April - 23 May 2022

Test result: 1.8

Approved yes/no: yes; 23 May 2022





Test report no.: <u>220.421.8</u>

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 microbes. 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.





Test report no.: <u>220.421.8</u>

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 x 10 ² cfu/g or ml ^a	≤ 1 x 10³ 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. aeruginosa and S. aureus.

Parameter TAMC [cfu/0,1 ml]	Sample no.: 220.421.8 < 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

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





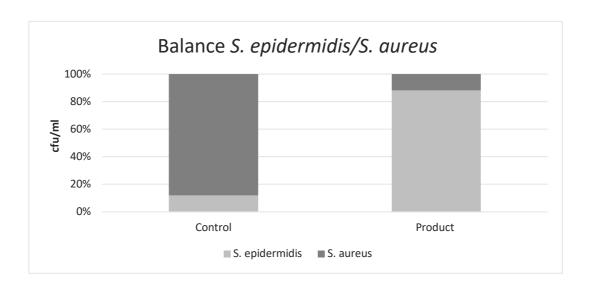
Test report no.: <u>220.421.8</u>

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/	Cuada
	S. epidermidis	S. aureus	Control	Grade
Control	3.2E+02	2.3E+03	53.8	1.0
Product	8.0E+03	1.1E+03		

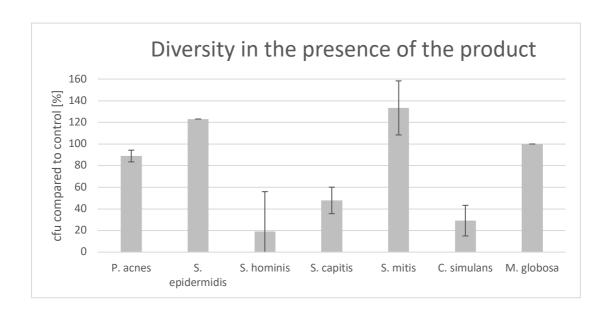


Test report no.: <u>220.421.8</u>

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



Kay Misyaha	t=	4h	Dating
Key-Microbe	cfu/ml		Rating
0	Control	1.2E+02	1
P. acnes	Product	1.1E+02	1
C anidarmidis	Control	1.3E+02	1
S. epidermidis	Product	1.6E+02	1
S. hominis	Control	7.0E+02	3
S. Hominis	Product	1.4E+02	3
C!#!-	Control	8.4E+02	3
S. capitis	Product	4.0E+02	3
Ctitle	Control	3.0E+01	1
S. mitis	Product	4.0E+01	1
C simulans	Control	5.6E+02	2
C. simulans	Product	1.6E+02	3
M. globosa	Control	1.0E+01	1
	Product	1.0E+01	
C	verall rating:	<u> </u>	1.9



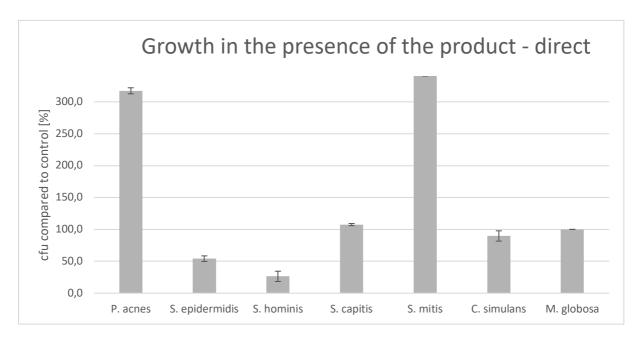


Test report no.: <u>220.421.8</u>

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
P. acnes	Control	368.7	2
	Product	1170.0	3
C omidowanidia	Control	805.3	2
S. epidermidis	Product	436.0	3
S. hominis	Control	790.7	3
3. Homins	Product	208.7	3
S. capitis	Control	712.7	1
3. cupitis	Product	767.0	1
S. mitis	Control	1466.7	3
J. IIIICIS	Product	5000.0	3
C. simulans	Control	158.7	1
C. simulans	Product	142.3	
M. globosa	Control	1.0	1
	Product	1.0	1
Overall rating:		2.1	



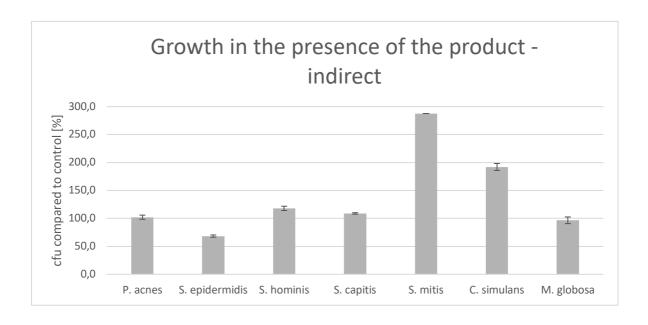


Test report no.: <u>220.421.8</u>

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
P. acnes	Control	366.0	1
	Product	374.0	1
Canidarmidis	Control	784.0	2
S. epidermidis	Product	536.0	2
S. hominis	Control	813.3	1
3. Hominis	Product	959.7	1
S. capitis	Control	712.7	1
	Product	776.3	1
S. mitis	Control	1042.7	3
	Product	3000.0	3
C. simulans	Control	188.7	3
	Product	362.3	
M. globosa	Control	1.0	1
	Product	1.0	1
Overall rating:		1.7	





Test report no.: <u>220.421.8</u>

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	1.0
Diversity of the corresponding skin microbiome (x2)	1.9
Skin-product contact direct (x2)	2.1
Skin-product contact indirect	1.7
Overall grade	1.8

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

Place, Date: Balzers, 23 May 2022

Responsible person: Dr. Kristin Neumann

Signature:

