

Test report no.: 210.712.1

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

Information about the tested product:

Manufacturer:

Incospharm Corp. #328, Techno-2-ro Yuseong-gu, Daejeon Republic of Korea



Name of the product:

Incospharm / Aquatide 5000, 1% in PBS (v/v)

Product class:

- Sebaceous skin
 MyMicrobiome Standard 18.10
- Moist skinMyMicrobiome Standard 18.10
- O Dry skin

 MyMicrobiome Standard 18.10

- ScalpMyMicrobiome Standard 19.10
- Infant skinMyMicrobiome Standard 20.10
- Vaginal tractMyMicrobiome Standard 21.10
- Feet
 MyMicrobiome Standard 22.10
- MouthMyMicrobiome Standard 23.10
- Nasal mucosaMyMicrobiome Standard 24.10

Sample receipt: July 02 2021 Test result: 1

Test date/period: July 02 - 12, 2021 Approved yes/no: yes; July 12th 2021





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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.





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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.

Towns of summittee	Limit values		
Types of organisms	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))	$\leq 1 \times 10^2 \text{ cfu/g or ml}^a$	≤ 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	Sample no.: 210.712.1	
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	

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





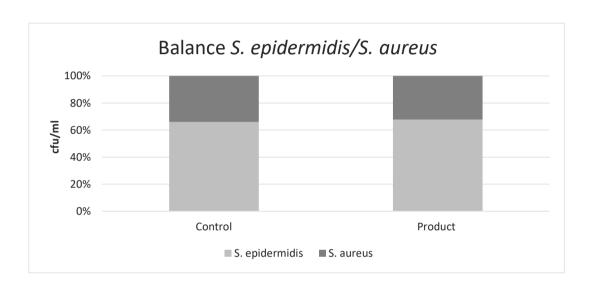
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Results

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/	Consider
	S. epidermidis	S. aureus	Control	Grade
Control	1.1E+02	5.7E+01	1.1	1.0
Product	1.3E+02	6.3E+01		



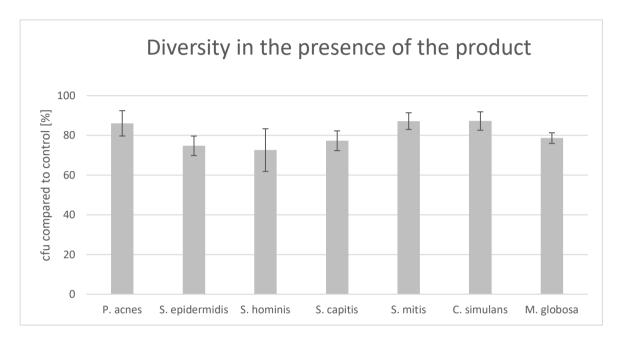


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Results - SEBACEOUS SKIN -

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 bacteria compared to the control (PBS) is determined.



Vov. Misyaha	t=	4 h	Dating
Key-Microbe	cfu/ml		Rating
	Control	1.4E+03	2
P. acnes	Product	1.2E+03	2
C omidowanidia	Control	6.9E+02	2
S. epidermidis	Product	5.1E+02	2
S. hominis	Control	4.5E+02	2
5. Homins	Product	3.3E+02	2
Comitic	Control	4.0E+02	2
S. capitis	Product	3.1E+02	2
S. mitis	Control	4.2E+03	2
5. mius	Product	3.6E+03	
C. simulans	Control	6.5E+02	2
C. Simulans	Product	5.7E+02	2
M. globosa	Control	3.5E+03	2
	Product	2.8E+03	2
Overall rating:			2.0



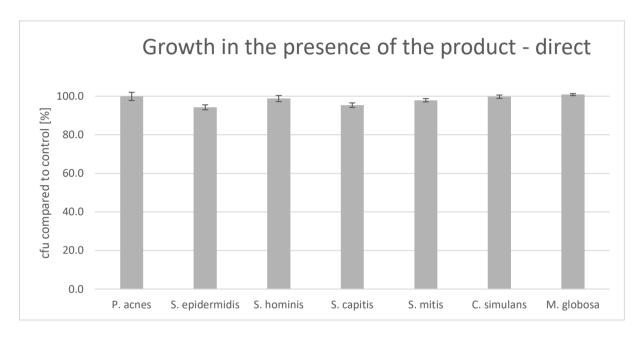


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Results - SEBACEOUS SKIN -

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
0	Control	865.3	1
P. acnes	Product	864.0	1
C amida unaidia	Control	508.0	2
S. epidermidis	Product	478.7	2
C hominia	Control	533.3	1
S. hominis	Product	526.7	1
C!!	Control	741.3	1
S. capitis	Product	706.7	1
S. mitis	Control	1258.7	1
3. IIIIGS	Product	1232.0	1
C. simulans	Control	960.0	1
	Product	957.3	1
M. globosa	Control	1157.3	1
	Product	1166.7	1
Overall rating:			1.1



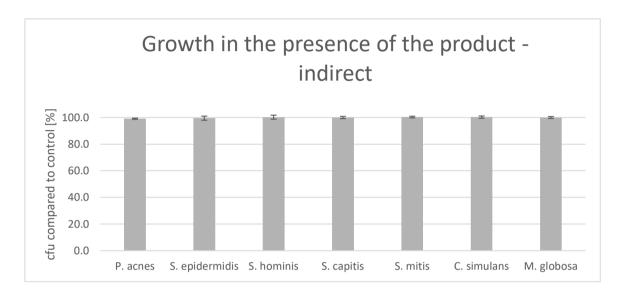


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Results - SEBCEOUS SKIN -

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	872.0	1
P. uches	Product	864.0	1
C amidamenidia	Control	522.7	1
S. epidermidis	Product	520.0	1
S. hominis	Control	526.7	4
5. Hominis	Product	528.0	1
Camitia	Control	738.7	1
S. capitis	Product	738.7	1
S. mitis	Control	1276.0	1
S. mius	Product	1280.0	1
C cinculans	Control	966.7	1
C. simulans	Product	969.3	1
M. globosa	Control	1173.3	1
	Product	1173.3	1
Overall rating:		1.0	





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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 2.0.

Here the grade means

1 = Microbiome-friendly 2 = Microbiome-neutral 3 = Microbiome-damaging.

Test	Grade
Balance of the skin microbiome	1.0
Diversity of the corresponding skin microbiome (x2)	2.0
Skin-product contact direct (x2)	1.1
Skin-product contact indirect	1.0
Overall grade	1.4

With an overall grade of 1.4 the seal "Microbiome-friendly" is awarded according to MyMicrobiome Standard 18.10.

Place, Date: Balzers, July 12th, 2021

Responsible person: Dr. Kristin Neumann

Signature:

