

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

Information about the tested product:

Manufacturer: Aquis Inc. 621 Sansome St. San Francisco, CA 94111 USA



Name of the product: Peptide Prep pH Maintenance Shampoo, (w/v) 33% in PBS, pH 7.4

Product class:

- 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
- Auxiliary 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: November 11, 2021 Test period: 09 - 20 June, 2022

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Test result: 1.8 Approved yes/no: yes; June 30, 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:

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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 (socalled 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 1 g or 1 ml	Not detectable in 1 g or 1 ml	
Pseudomonas aeruginosa	Not detectable in 1 g or 1 ml	Not detectable in 1 g or 1 ml	
Staphylococcus aureus	Not detectable in 1 g or 1 ml	Not detectable in 1 g or 1 ml	
Candida albicans	Not detectable in 1 g or 1 ml	Not detectable in 1 g 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*.

Parameter	Sample no.: 220.620.0
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
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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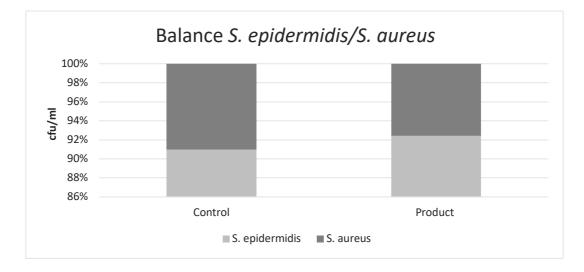


Results

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 = 15 min.



	cfu/ml		Ratio Product/	Crada
	S. epidermidis	S. aureus	Control	Grade
Control	5.6E+03	5.6E+02	1 0	1.0
Product	6.9E+02	5.7E+01	1.2	1.0

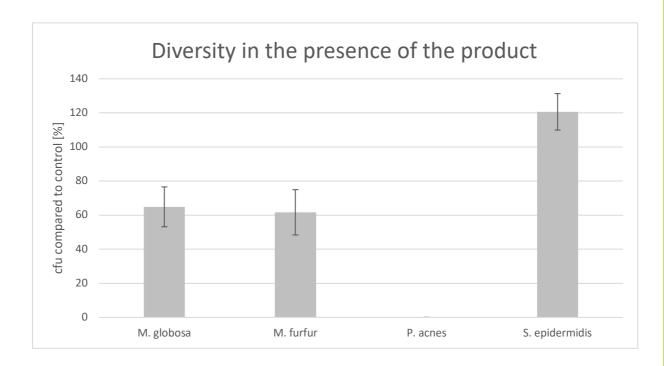




Results - SCALP -

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 15 min.. The ratio of the bacteria compared to the control (PBS) is determined.



Koy Microbo	t=	15 min	Pating
Key-Microbe	cfu/ml		Rating
M. globosa	Control	5.3E+03	3
	Product	3.4E+03	
M. furfur	Control	5.1E+03	3
	Product	3.1E+03	
P. acnes	Control	9.3E+02	3
	Product	0.0E+00	
S. epidermidis	Control	4.9E+02	1
	Product	6.0E+02	
C	Verall rating:		2.5

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Results - SCALP -

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>M. globosa</i> confluence	Control	1.0	2
	Product	0.9	
<i>M. furfur</i> confluence	Control	1.0	1
	Product	1.0	
P. acnes	Control	655.3	3
	Product	64.5	5
S. epidermidis	Control	395.3	1
	Product	457.3	L
Overall rating:		1.8	

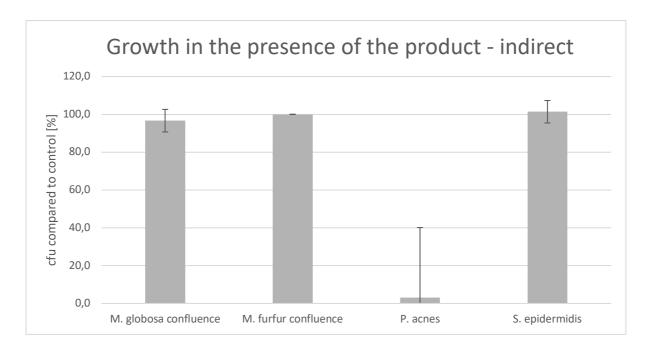
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Results - SCALP -

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
M. globosa	Control	1.0	1
confluence	Product	1.0	1
<i>M. furfur</i> confluence	Control	1.0	1
	Product	1.0	
P. acnes	Control	574.0	3
	Product	17.3	
S. epidermidis	Control	436.0	1
	Product	442.0	
Overall rating:		1.5	

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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 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)	2.5
Skin-product contact direct (x2)	1.8
Skin-product contact indirect	1.5
Overall grade	1.8

With an overall grade of 1.8 the seal "Microbiome-friendly" is awarded according to MyMicrobiome Standard 19.10.

Place, Date:

Balzers, June 30, 2022

Responsible person:

Dr. Kristin Neumann

Signature:

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