

Test report no.: 200.804.1

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

Information about the tested product:

Manufacturer:

House of Gro LLC. 395 Main Street Jackman Maine 04945 United States of America

Name of the product:

House of Gro - AFTER DARK

Product class:

X 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 / TighsMyMicrobiome Standard 18.10

Auxillary vault

MyMicrobiome Standard 18.10

Scalp

MyMicrobiome Standard 19.10

Infant skinMyMicrobiome Standard 20.10

Vaginal tractMyMicrobiome Standard 21.10

Feet
MyMicrobiome Standard 22.10

Mouth
MyMicrobiome Standard 23.10

Nasal mucosa
MyMicrobiome Standard 24.10

Sample receipt: 10 June 2020 Test result: 1,6

Test date/period: 18 June - 04 August 2020 Approved yes/no: yes; 20 August 2020





Test report no.: 200.804.1

Test description

The MyMicrobiome Standard evaluates cosmetic and personal care products, that come into contact with 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.





Test report no.: 200.804.1

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.

	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))	≤ 1 x 10² cfu/g or ml³	≤ 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.: 200.804.1
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.





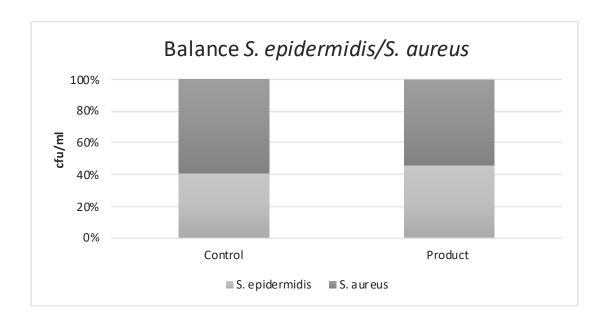
Test report no.: 200.804.1

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 for 4 h. The ratio of the two microbes to each other is determined.

Determination of the bacterial count at time t = 4 h.



	cfu/ml	
	S. epidermidis	S. aureus
Control	6,0E+02	8,6E+02
Product	3,5E+02	4,1E+02



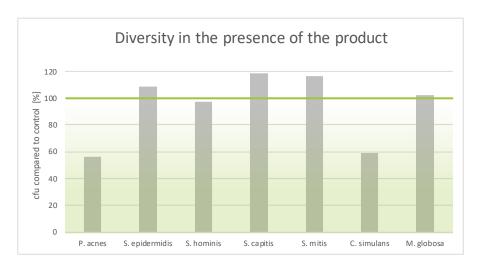


Test report no.: 200.804.1

Results

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



Key-Microbe	Time t=4 h	Rating	
P. acnes	cfu/ml		
Control	3,9E+03	3	
Product	2,2E+03	3	
S. epidermidis			
Control	1,5E+03	1	
Product	1,7E+03	1	
S. hominis			
Control	1,9E+03	1	
Product	1,8E+03	1	
S. capitis			
Control	8,8E+02	1	
Product	1,0E+03	1	
S. mitis			
Control	3,4E+02	1	
Product	3,9E+02	1	
C. simulans			
Control	6,5E+02	3	
Product	3,8E+02	3	
M. globosa			
Control	7,3E+02	1	
Product	7,5E+02		
Overall rating:		1,6	



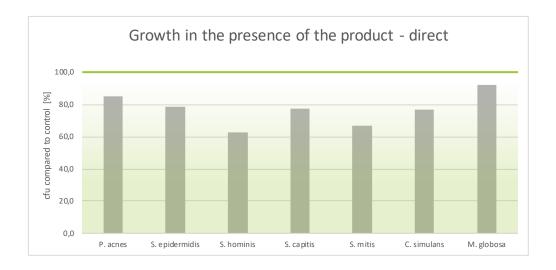


Test report no.: 200.804.1

Results

 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	2336	
	Product	1984	2
C anidarmidia	Control	728	
S. epidermidis	Product	572	2
S. hominis	Control	588	
3. Hominis	Product	367	3
C!#!-	Control	596	
S. capitis	Product	460	2
S. mitis	Control	744	
3. mus	Product	496	2
C. simulans	Control	432	
	Product	333	2
M. globosa	Control	948	
	Product	872	2
Over	rall rating:		2,1



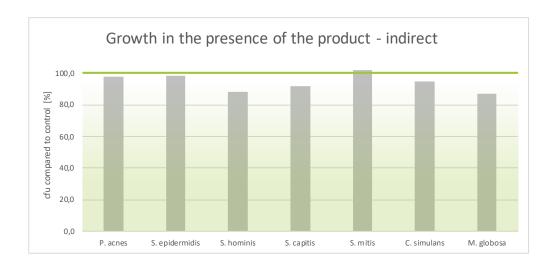


Test report no.: 200.804.1

Results

 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	2156	
	Product	2108	1
	Control	664	
S. epidermidis	Product	652	1
S. hominis	Control	564	
3. Homins	Product	496	2
C	Control	572	
S. capitis	Product	526	2
C with	Control	792	
S. mitis	Product	808	1
C. simulans	Control	492	
	Product	468	1
M. globosa	Control	752	
	Product	656	2
Overa	II rating:	-	1,4





Test report no.: 200.804.1

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

Test	Grade
Balance of the skin microbiome	1,0
Diversity of the corresponding skin microbiome (x2)	1,6
Skin-product contact direct (x2)	2,1
Skin-product contact indirect	1,4
Overall grade	1,6

With an overall grade of 1,6 the seal "Microbiome-friendly" is awarded according to MyMicrobiome Standard 18.10.

Place, Date: Balzers, 20 August 2020

Responsible person: Dr. Kristin Neumann

Signature:



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