

MyMicrobiome Standard Test report no.: 230.458.9

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

Information about the tested product:

Manufacturer:
Delavie Sciences LLC
365 Plantation St Ste 175
Worcester MA, 01605
USA

Name of the product: Aeonia Age Defying Serum

Product type:

× Final Product

Ingredient

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						<u> </u>		

🔘 Rinse Off

Standard:

- Face/Lips
 MyMicrobiome Standard 18.10
- Body / Neck / Chest / Hands
 MyMicrobiome Standard 18.10
- Back
 MyMicrobiome Standard 18.10
- Bottom / Thighs
 MyMicrobiome Standard 18.10
- Axillary vault
 MyMicrobiome Standard 18.10

Sample receipt: 03 February 2023 Test period: 06 February– 11 April 2023

- 🗙 Leave On
- 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

Test result:2.0Approved yes/no:yes; 12 April 2023

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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.



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))	$\leq 1 \times 10^2 \text{ cfu/g or ml}^3$	\leq 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.: 230.458.9
TAMC [cfu/0,1 ml]	< 1,0E+01
TYMC (incl. <i>Candida albicans</i>) [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



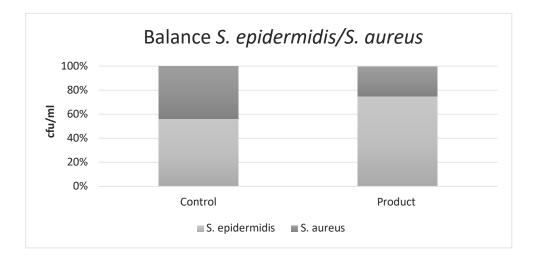
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Results

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 (rinse-off) or 4h (leave-on).



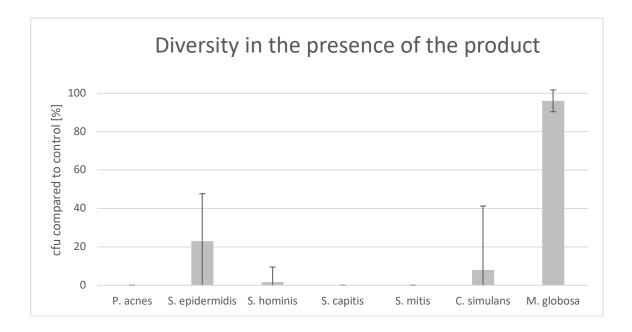
	cfu/ml		Ratio Product/	
	S. epidermidis	S. aureus	Control	Grade
Control	1.4E+03	1.1E+03	2.4	1.0
Product	2.6E+03	8.6E+02	2.4	1.0



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 15 min (rinse-off) or 4h (leave-on) The ratio of the bacteria compared to the control (PBS) is determined.



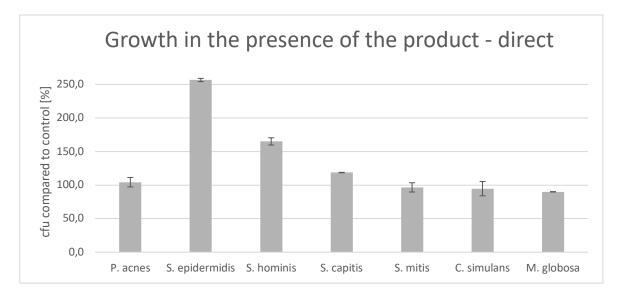
Key Misseho	t=	4h	Dating
Key-Microbe	cfu/	Rating	
P. acnes	Control	1.2E+03	3
P. uches	Product	0.0E+00	5
5 onidormidic	Control	1.1E+03	3
S. epidermidis	Product	2.5E+02	5
C. hominia	Control	5.5E+03	3
S. hominis	Product	9.0E+01	3
C. comitic	Control	5.4E+03	2
S. capitis	Product	0.0E+00	3
S. mitis	Control	2.9E+02	2
S. mitis	Product	0.0E+00	3
C. cimulane	Control	4.3E+03	2
C. simulans	Product	3.5E+02	3
M. globosa	Control	5.7E+04	1
	Product	5.5E+04	L
Overall rating:			2.7



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.



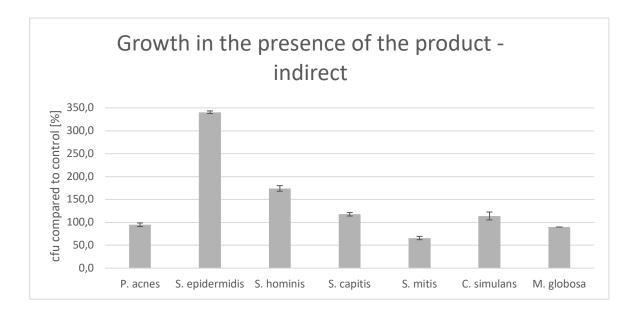
Key-Microbe	cfu /P	cfu /Plate		
P. acnes	Control	600.7		
P. uches	Product	626.7	1	
S. epidermidis	Control	130.7		
5. epidermidis	Product	335.3	3	
S. hominis	Control	258.0		
5. 1101111115	Product	426.0	3	
S. capitis	Control	316.3		
5. cupitis	Product	375.3	1	
S. mitis	Control	2186.7		
5. 11115	Product	2112.0	1	
C. simulans	Control	412.0		
C. 3111010113	Product	390.0	1	
M. globosa	Control	1.0		
	Product	0.9	2	
Overall rating:			1.7	



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 /P	cfu /Plate	
P. acnes	Control	574.0	
r. uches	Product	544.0	1
S. epidermidis	Control	134.7	
S. epidermidis	Product	458.7	3
S. hominis	Control	260.7	
S. nominis	Product	454.0	3
C. comitic	Control	356.7	
S. capitis	Product	420.0	1
S. mitis	Control	2016.0	
<i>3. mius</i>	Product	1328.0	2
C. simulans	Control	497.3	
C. Simulans	Product	567.0	1
M. globosa	Control	1.0	
	Product	0.9	2
Overall rating:			1.9



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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)	2.7
Skin-product contact direct (x2)	1.7
Skin-product contact indirect	1.9
Overall grade	2.0

With an overall grade of 2.0 the seal "Microbiome-friendly" is awarded according to MyMicrobiome Standard 18.10.

Place, Date:

Balzers, 12 April 2023

Responsible person:

Dr. Kristin Neumann

Signature:

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