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

Information about the tested product:

Manufacturer: Codex Labs Corporation 1900 Camden Avenue, Suite 101 CA 95124 San Jose USA

Name of the product:

Sensitive Skin - Sea Salt Soak

Product type:	Final product
Application:	Rinse-off
Dilution:	5% in PBS
Sample received:	25 August 2023
Test Start:	29 August 2023
Test End:	26 September 2023
Test Standard:	MyMicrobiome Standard 18.11 Face / Body
Test result:	1.5
Certification:	granted

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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.

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 10² cfu/g or mlª	≤ 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. aeruginosa and S. aureus.

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

Parameter	Sample no.: 23.700.18.1
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



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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).



S. aureus/S. epidermidis

	cfu	/ml Ratio Product/ Grac		cfu/ml Ratio Product/ Gr		Crada
	S. aureus	S. epidermidis	Control	Grade		
Control	350	4476.7	1 1	1.0		
Product	320	4406.7		1.0		



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



Diversity in the presence of the product

Kay Miaraha	t=	15min	Dating
Key-Microbe	cfu/ml		Rating
C cimulanc	Control	526.7	2
C. Simulans	Product	1006.7	3
M. globosa	Control	12166.7	2
confluence	Product	16233.3	2
Darmar	Control	293.3	1
P. acries	Product	326.7	T
S capitic	Control	1566.7	3
S. cupitis	Product	153.3	
• • • • • • • • • • • • • • • • • • •	Control	1866.7	3
S. epidermilais	Product	310	
5 hominic	Control	3966.7	3
S. nominis	Product	263.3	
0	Control		
5. mius	Product	0	
Overall rating:			2.5



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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.



Growth in the presence of the product - direct

Key-Microbe	cfu/ml		Rating
C cimulanc	Control	383.3	1
C. Simulans	Product	422	Ţ
M. alabaan confluence	Control	100	1
M. globosa confluence	Product	96.7	1
Daramaa	Control	25	2
P. acnes	Product	35.3	2
6 conitic	Control	268.7	1
S. Capilis	Product	283.3	
C anidarmidia	Control	620	1
S. epidermiais	Product	620.7	
C hominia	Control	887	1
S. nominis	Product	862.7	
S. mitis	Control	720	2
	Product	586.7	Z
Overall rating:			1.3



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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.



Growth in the presence of the product - indirect

Key-Microbe	cfu/ml		Rating
C simulans	Control	440	1
c. siniuluns	Product	456.7	I
M alabasa confluenco	Control	100	1
M. globosa connuence	Product	100	1
D. genee	Control	28.7	2
P. acries	Product	21	2
5 consistio	Control	288	1
S. Capitis	Product	274.7	
5 onidormidic	Control	580.7	1
S. epidermiais	Product	617.3	
C hominia	Control	1011	2
S. nominis	Product	887	2
S. mitis	Control	641.3	2
	Product	542.7	2
Overall rating:			1.4



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Results - DRY 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 t = 15 min (rinse-off) or 4h (leave-on). The ratio of the microbes compared to the control (PBS) is determined.



Diversity in the presence of the product

Kay Miaraha	t=	15min	Dating
Key-Microbe	ct	fu/ml	Rating
С.	Control	103,3	
tuberculostearicu m	Product	113,3	1
M alabasa	Control	1266,7	2
m. globosu	Product	1100	2
Mutous	Control	2313,3	1
m. luteus	Product	2270	L
D. acros	Control	706,7	1
P. uches	Product	783,3	L
S. mitis	Control	910	1
	Product	930	L
S. oralis	Control	3466,7	2
	Product	3200	2
Overall rating:			1.3



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Results - DRY 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.



Growth in the presence of the product - direct

Key-Microbe	cfu/ml		Rating
с.	Control	3058.3	1
tuberculostearicum	Product	3164.3	L
M. globosa	Control	100	1
confluence	Product	96.7	
M lutana	Control	206.7	1
M. luteus	Product	253.7	
P. acnes	Control	25	2
	Product	35.3	
S. mitis	Control	720	2
	Product	586.7	
C. overlin	Control	2922	1
S. oralis	Product	3057.3	
Overall rating:			1.3



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Results - DRY 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.



Growth in the presence of the product - indirect

Key-Microbe	cfu/ml		Rating
C tuborculostogricum	Control	3067.3	1
c. tuber culosteuricum	Product	3070.7	T
M. alabasa sanfluansa	Control	100	1
m. globosa confluence	Product	100	T
M lutana	Control	229.3	1
M. luteus	Product	224.7	1
0	Control	28.7	2
P. acnes	Product	23	
C millio	Control	641.3	2
S. mitis	Product	542.7	
C. analia	Control	2459.3	1
S. oralis	Product	2441	L
Overall rating:	•		1.3



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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-influencing

Test	Grade
Balance of the skin microbiome	1.0
Diversity of the corresponding skin microbiome (sebaceous, x2)	2.5
Diversity of the corresponding skin microbiome (dry, x2)	1.3
Skin-product contact direct (sebaceous, x2)	1.3
Skin-product contact direct (dry, x2)	1.3
Skin-product contact indirect (sebaceous)	1.4
Skin-product contact indirect (dry)	1.3
Overall grade	1.5

With an overall grade of 1.5 the seal "Microbiome-friendly" is awarded according to MyMicrobiome Standard 18.11 Face / Body.

Place, Date:

Balzers, 08 July 2024

Responsible person:

Dr. Kristin Neumann

Signature:

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