

Test report no.: <u>210.907.2</u>

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

Information about the tested product:

Manufacturer:

Codex Beauty Corporation 1900 Camden Avenue, Suite 101 San Jose, CA 95124 United States of America



Name of the product:

CODEX BEAUTY LABS - Antü Refreshing Soap, conc. 50 mg/ml (w/v)

Product class:

- Face / Eyes MyMicrobiome Standard 18.10
- Lips MyMicrobiome Standard 18.10
- Body / Neck / Chest / Hands MyMicrobiome Standard 18.10
- X Back MyMicrobiome Standard 18.10
- Bottom / Thighs MyMicrobiome Standard 18.10
- Auxiliary vaultMyMicrobiome Standard 18.10

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

Sample receipt: September 07, 2021 Test result:

Test date/period: September 09 - 20, 2021 Approved yes/no: yes; September 20th 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 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.

Toron of committee	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 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.: 210.907.2
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.



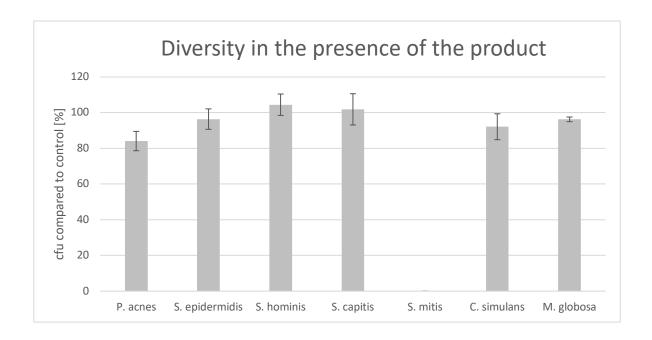


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Results - SEBACEOUS SKIN -

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



Key-Microbe	t=	15 min	Rating
	cfu/ml		
P. acnes	Control	3.5E+03	2
	Product	2.9E+03	
S. epidermidis	Control	2.8E+02	1
	Product	2.7E+02	
S. hominis	Control	1.1E+03	1
	Product	1.1E+03	
S. capitis	Control	3.6E+02	1
	Product	3.7E+02	
S. mitis	Control	3.7E+03	3
	Product	0.0E+00	
C. simulans	Control	1.2E+03	1
	Product	1.1E+03	
M. globosa	Control	8.0E+02	1
	Product	7.7E+02	
C	Overall rating:		



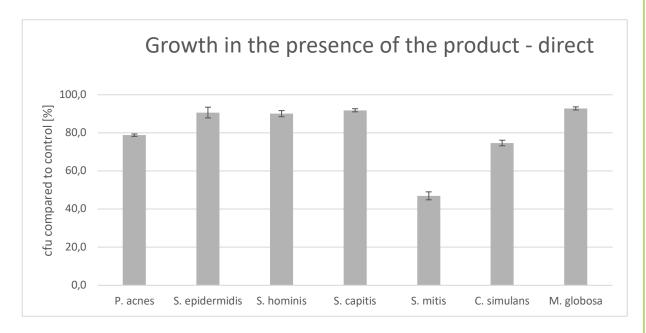


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Results - SEBACEOUS SKIN -

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
P. acnes	Control	1250.7	2
	Product	985.3	
S. epidermidis	Control	414.7	2
	Product	376.0	
S. hominis	Control	578.7	2
	Product	521.3	
S. capitis	Control	918.7	2
	Product	844.0	
S. mitis	Control	1428.0	3
	Product	670.7	
C. simulans	Control	1174.7	2
	Product	877.3	
M. globosa	Control	821.3	2
	Product	762.7]
Overall rating:			2.1



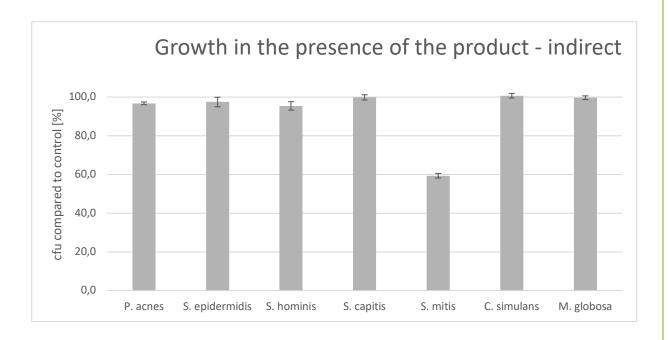


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Results - SEBACEOUS SKIN -

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.



Key-Microbe	cfu /Plate		Rating
P. acnes	Control	1270.7	1
	Product	1229.3	
S. epidermidis	Control	420.0	1
	Product	409.3	
S. hominis	Control	585.3	1
	Product	558.7	
S. capitis	Control	893.3	1
	Product	892.0	
S. mitis	Control	1426.7	3
	Product	846.7	
C. simulans	Control	1173.3	1
	Product	1181.3	
M. globosa	Control	834.7	1
	Product	832.0	
Overall rating:			1.3



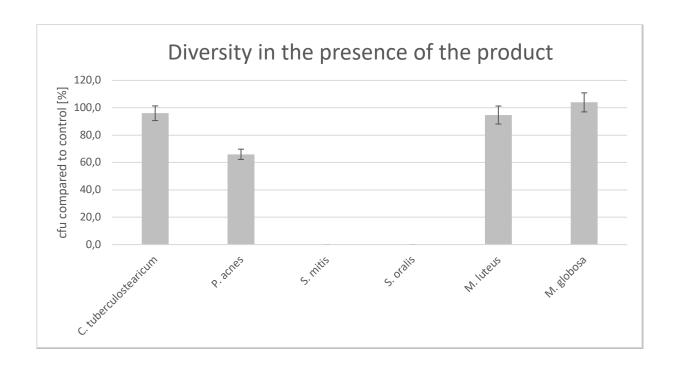


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Results - DRY SKIN -

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



Key-Microbe	t=	15 min	Rating
	cfu/ml		
C.	Control	2.1E+03	1.0
tuberculostearicum	Product	2.1E+03	
P. acnes	Control	4.2E+03	2.0
	Product	2.7E+03	
S. mitis	Control	3.3E+03	3.0
	Product	0.0E+00	
S. oralis	Control	2.5E+03	3.0
	Product	0.0E+00	
M. luteus	Control	8.8E+02	1.0
	Product	8.4E+02	
M. globosa	Control	1.0E+03	1.0
	Product	1.1E+03]
Overall rating:			1.8



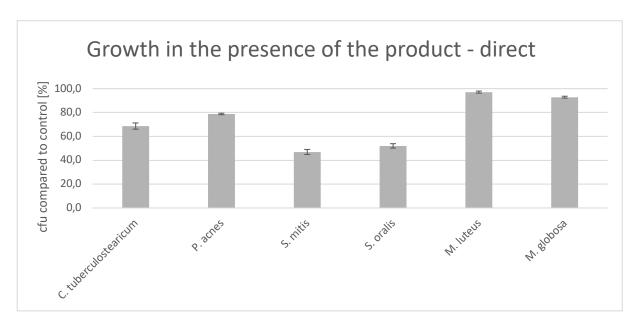


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Results - DRY SKIN -

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.



Key-Microbe	cfu /Plate		Rating
C. tuberculostearicum	Control	846.7	2
	Product	581.3	
P. acnes	Control	1250.7	2
	Product	985.3	
S. mitis	Control	1428.0	3
	Product	670.7	
S. oralis	Control	1048.0	3
	Product	545.3	
M. luteus	Control	736.0	1
	Product	714.7	
M. globosa	Control	821.3	2
	Product	762.7]
Overall rating:			2.2



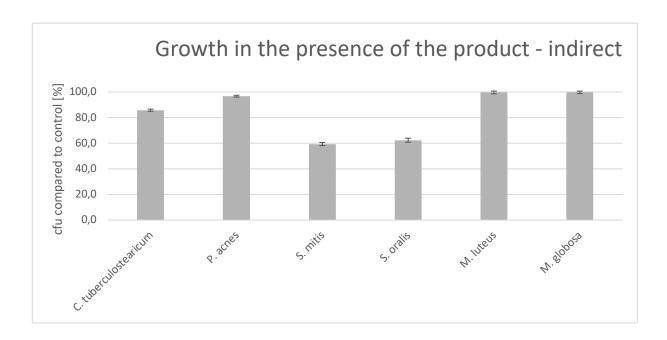


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Results - DRY SKIN -

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.



Key-Microbe	cfu /Plate		Rating
C. tuberculostearicum	Control	842.7	2
	Product	722.7	
P. acnes	Control	1270.7	1
	Product	1229.3	
S. mitis	Control	1426.7	3
	Product	846.7	
S. oralis	Control	1037.3	3
	Product	646.7	
M. luteus	Control	742.7	1
	Product	740.0	
M. globosa	Control	834.7	1
	Product	832.0	
Overall rating:			1.8





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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
Diversity of the corresponding skin microbiome (sebaceous, x2)	1.4
Diversity of the corresponding skin microbiome (dry, x2)	1.8
Skin-product contact direct (sebaceous, x2)	2.1
Skin-product contact direct (dry, x2)	2.2
Skin-product contact indirect (sebaceous)	1.3
Skin-product contact indirect (dry)	1.8
Overall grade	1.8

With an overall grade of 1.8 the seal "Microbiome-friendly" is awarded according to MyMicrobiome Standard 18.10.

Place, Date: Balzers, September 20th, 2021

Responsible person: Dr. Kristin Neumann

Signature:

