MyMicrobiome Standard
Test report no.: 210.330.7

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
3130 Alpine Road, Suite 200
Portola Valley, CA 94028
United States of America

Name of the product:
CODEX BEAUTY LABS – Restoring Soap Conc.: 0,05 g/ml

Product class:

- (X) Face / Eyes — MyMicrobiome Standard 18.10
- (X) Lips — MyMicrobiome Standard 18.10
- (X) Body / Neck / Chest / Hands — MyMicrobiome Standard 18.10
- (X) Back — MyMicrobiome Standard 18.10
- (X) Bottom / Thighs — MyMicrobiome Standard 18.10
- ( ) Auxillary 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:	20 March 2021	Test result:	2,0
Test date/period:	24 March - 30 March 2021	Approved yes/no:	yes; 22 April 2021

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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 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 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.*

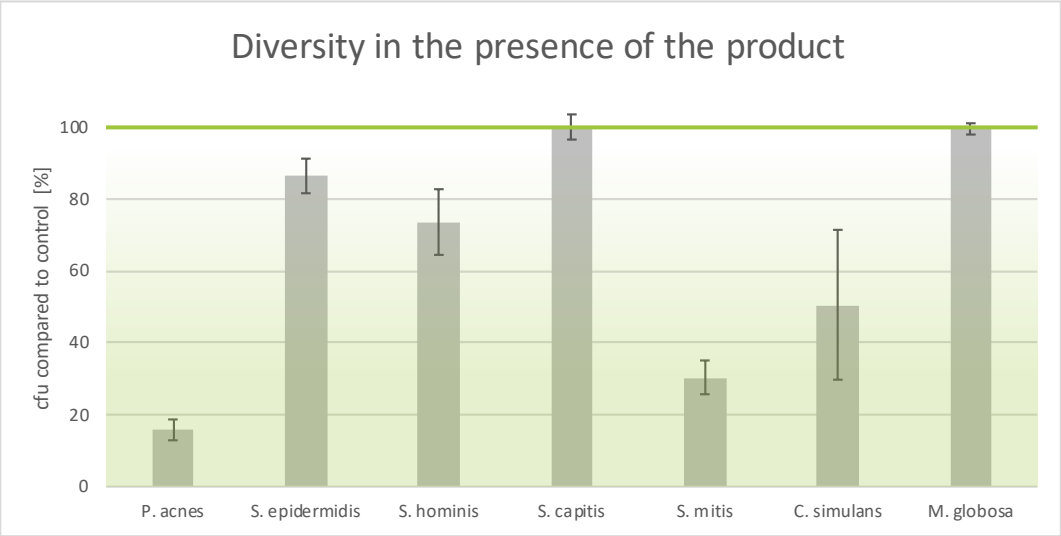
Parameter	Sample no.: 210.330.7
TAMC [cfu/0,1 ml]	< 1,0E+01
TYMC [cfu/0,1 ml]	< 1,0E+01
Escherichia coli [in 0,1 ml]	negative
Pseudomonas aeruginosa [in 0,1 ml]	negative
Staphylococcus aureus [in 0,1 ml]	negative

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

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.

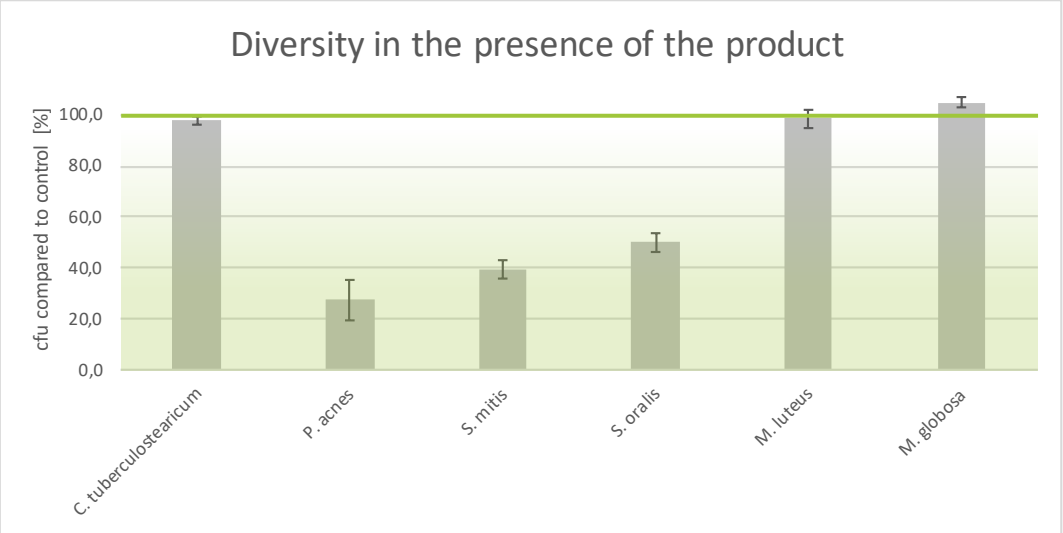


Key-Microbe	t=	15 min	Rating
	cfu/ml		
P. acnes	Control	3,3E+03	3
	Product	5,3E+02	
S. epidermidis	Control	6,4E+02	2
	Product	5,5E+02	
S. hominis	Control	8,2E+02	2
	Product	6,0E+02	
S. capitis	Control	4,4E+02	1
	Product	4,4E+02	
S. mitis	Control	1,5E+03	3
	Product	4,4E+02	
C. simulans	Control	2,9E+02	3
	Product	1,5E+02	
M. globosa	Control	2,5E+03	1
	Product	2,5E+03	
Overall rating:			2,1

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.

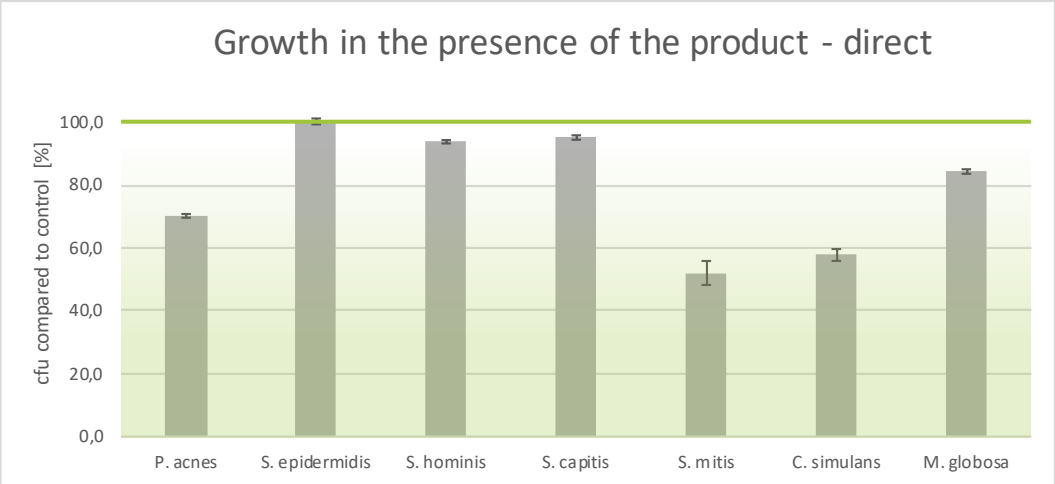


Key-Microbe	t=	15 min	Rating
	cfu/ml		
C. tuberculostearicum	Control	6,3E+02	1,0
	Product	6,2E+02	
P. acnes	Control	3,8E+03	3,0
	Product	1,1E+03	
S. mitis	Control	1,8E+03	3,0
	Product	7,0E+02	
S. oralis	Control	2,1E+03	3,0
	Product	1,1E+03	
M. luteus	Control	1,0E+03	1,0
	Product	1,0E+03	
M. globosa	Control	2,6E+03	1,0
	Product	2,7E+03	
Overall rating:			2,0

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.

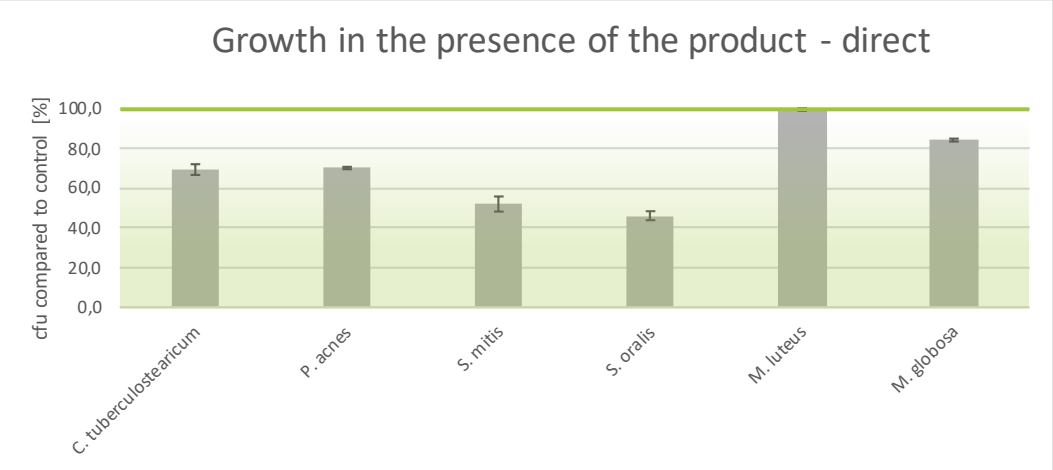


Key-Microbe	cfu /Plate		Rating
P. acnes	Control	1457,3	
	Product	1022,7	2
S. epidermidis	Control	653,3	
	Product	654,7	1
S. hominis	Control	984,0	
	Product	922,3	2
S. capitis	Control	1246,7	
	Product	1185,3	1
S. mitis	Control	1522,7	
	Product	792,0	3
C. simulans	Control	734,3	
	Product	424,0	3
M. globosa	Control	1373,3	
	Product	1157,3	2
Overall rating:			2,0

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.

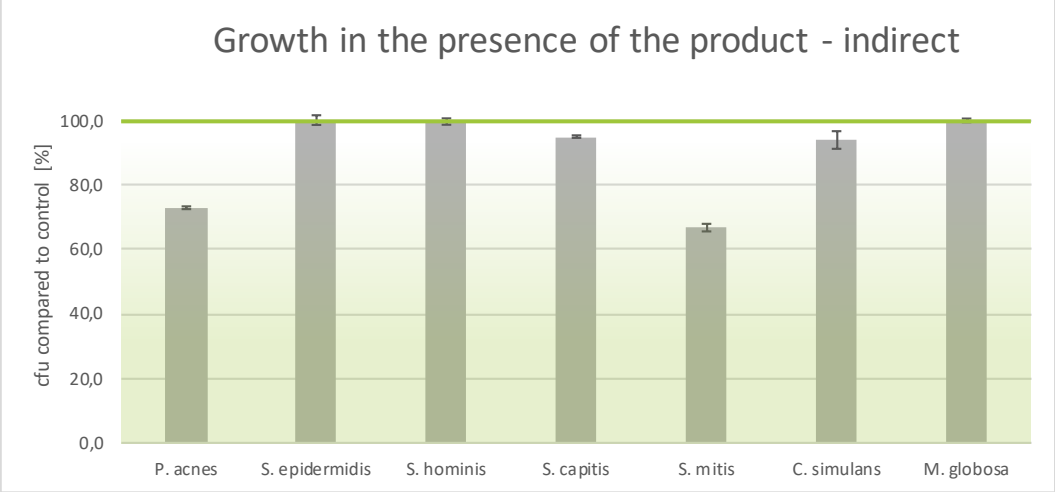


Key-Microbe	cfu /Plate		Rating
C. tuberculostearicum	Control	862,7	
	Product	598,7	2
P. acnes	Control	1457,3	
	Product	1022,7	2
S. mitis	Control	1522,7	
	Product	792,0	3
S. oralis	Control	1341,3	
	Product	618,7	3
M. luteus	Control	880,0	
	Product	877,3	1
M. globosa	Control	1373,3	
	Product	1157,3	2
Overall rating:			2,2

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.

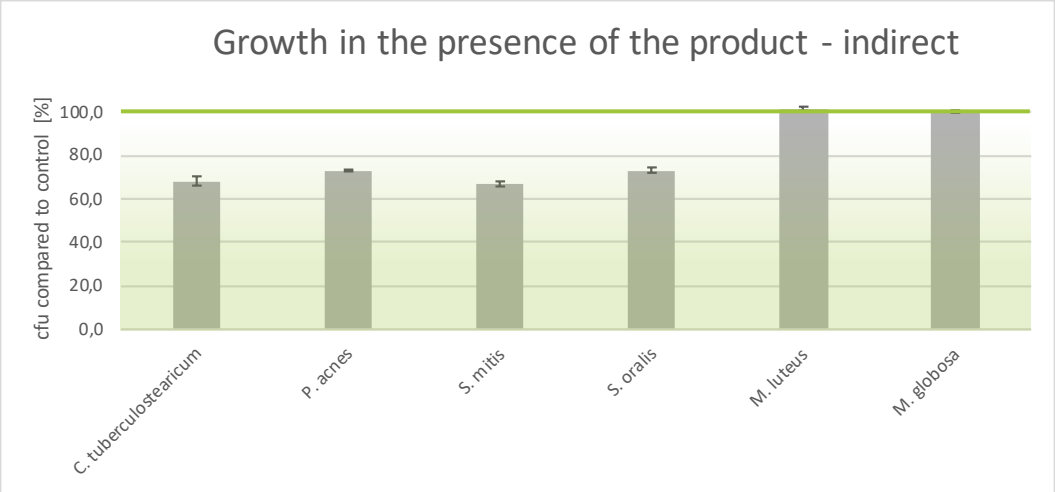


Key-Microbe	cfu /Plate		Rating
P. acnes	Control	1470,7	
	Product	1073,3	2
S. epidermidis	Control	702,7	
	Product	704,0	1
S. hominis	Control	1021,3	
	Product	1018,7	1
S. capitis	Control	1242,7	
	Product	1181,3	1
S. mitis	Control	1526,7	
	Product	1020,0	2
C. simulans	Control	734,7	
	Product	690,7	2
M. globosa	Control	1402,7	
	Product	1404,0	1
Overall rating:			1,4

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	884,0	
	Product	602,7	2
P. acnes	Control	1470,7	
	Product	1073,3	2
S. mitis	Control	1526,7	
	Product	1020,0	2
S. oralis	Control	1346,7	
	Product	985,3	2
M. luteus	Control	856,0	
	Product	868,0	1
M. globosa	Control	1402,7	
	Product	1404,0	1
Overall rating:			1,7

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
Diversity of the corresponding skin microbiome (x2) - sebaceous	2,1
Skin-product contact direct (x2) - sebaceous	2,0
Skin-product contact direct (x2) - sebaceous	1,4
Diversity of the corresponding skin microbiome (x2) - dry	2,0
Skin-product contact direct (x2) - dry	2,2
Skin-product contact direct (x2) - dry	1,7
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, 22 April 2021

Responsible person: Dr. Kristin Neumann

Signature: