

Test report no.: <u>221.238.8</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 Labs Corporation** 1900 Camden Avenue, Suite 101 San Jose CA 95124 **USA** Name of the product: Bia Cleansing Oil Product type: X Final Product Ingredient Application: X Rinse Off O Leave On Standard: X Face/Lips Infant skin MyMicrobiome Standard 18.10 MyMicrobiome Standard 20.10 Body / Neck / Chest / Hands Vaginal tract MyMicrobiome Standard 21.10 MyMicrobiome Standard 18.10 Back O Feet MyMicrobiome Standard 18.10 MyMicrobiome Standard 22.10 Bottom / Thighs Mouth MyMicrobiome Standard 18.10 MyMicrobiome Standard 23.10 Axillary vault Nasal mucosa MyMicrobiome Standard 18.10 MyMicrobiome Standard 24.10 Test result: Sample receipt: 14 November 2022 1.4 Test period: 14 November – 07 December 2022 Approved yes/no: yes; 09 December 2022



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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.

Torres of consolinate	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 <sup>b</sup>	
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.: 221.238.8
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



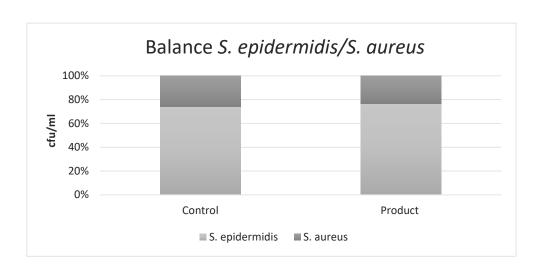
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### **Results**

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.



	cfu/	cfu/ml		
	S. epidermidis	S. aureus	Control	Grade
Control	1.4E+03	4.8E+02	1.2	1.0
Product	1.6E+03	4.8E+02	1.2	1.0

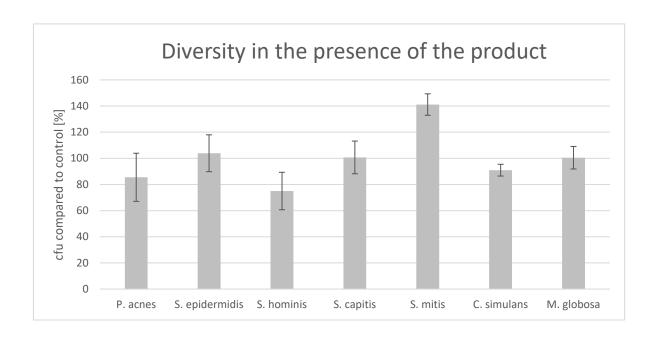


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#### **Results - SEBACEOUS SKIN -**

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



Key-Microbe	t=	15 min	Dating
Key-Wilcrobe	cfu/ml		Rating
0	Control	4.1E+02	2
P. acnes	Product	3.5E+02	2
C anidormidic	Control	3.4E+02	1
S. epidermidis	Product	3.6E+02	1
S. hominis	Control	4.9E+02	2
S. HOITHINS	Product	3.7E+02	2
C canitic	Control	4.8E+02	1
S. capitis	Product	4.8E+02	1
S. mitis	Control	1.1E+03	2
S. mitis	Product	1.5E+03	2
C. simulans	Control	1.7E+03	2
C. Simulans	Product	1.5E+03	
M. alohosa	Control	2.2E+03	1
M. globosa	Product	2.2E+03	
Overall rating:		1.6	

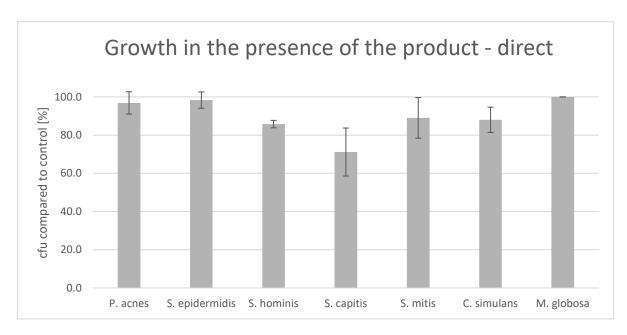


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#### **Results - SEBACEOUS SKIN -**

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 /P	cfu /Plate	
P. acnes	Control	592.0	
r. uches	Product	573.3	1
S. epidermidis	Control	962.7	
3. epideriilais	Product	946.7	1
S. hominis	Control	1096.0	
3. Hollillis	Product	940.0	2
S. capitis	Control	506.0	
5. cupitis	Product	360.0	2
S. mitis	Control	63.7	
<i>5. mids</i>	Product	56.7	1
C. simulans	Control	344.7	
C. Silitarans	Product	303.3	2
M. globosa	Control	1.0	
ivi. giobosa	Product	1.0	1
Overall rating:			1.4

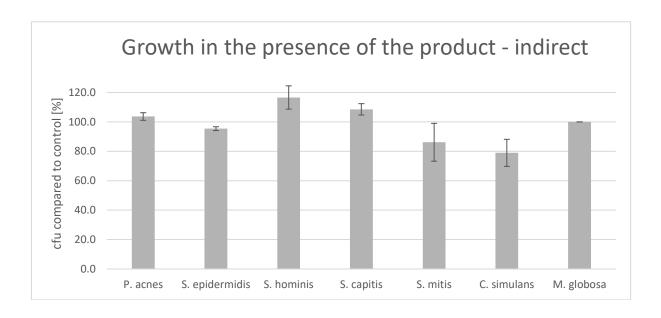


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#### **Results - SEBACEOUS SKIN -**

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 /P	cfu /Plate	
P. acnes	Control	452.7	
P. uciies	Product	469.3	1
S. epidermidis	Control	1165.3	
3. epideriilais	Product	1112.0	1
S. hominis	Control	1148.0	
3. Hollins	Product	1338.7	1
S canitic	Control	608.0	
S. capitis	Product	660.0	1
S. mitis	Control	65.0	
S. mids	Product	56.0	1
C. simulans	Control	348.7	
C. Silliuluiis	Product	275.3	2
M. alabasa	Control	1.0	
M. globosa	Product	1.0	1
Overall rating:			1.1



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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)	1.6
Skin-product contact direct (x2)	1.4
Skin-product contact indirect	1.1
Overall grade	1.4

With an overall grade of 1.4 the seal "Microbiome-friendly" is awarded according to MyMicrobiome Standard 18.10.

Place, Date: Balzers, 09 December 2022

Responsible person: Dr. Kristin Neumann

Signature: