

Test report no.: 210.322.60

Vaginal tract

MyMicrobiome Standard 21.10

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

#### Information about the tested product:

#### Manufacturer:

ICHIMARU PHARCOS Co., Ltd, 318-1, Asagi, Motosu-shi Gifu 501-0475

Japan

Name of the product:

Soapnut Extract Powder (1% w/w)



#### Product class:

Ory skin

MyMicrobiome Standard 18.10

MyMicrobiome Standard 18.10 MyMicrobiome Standard 23.10

Moist skin Scalp

MyMicrobiome Standard 18.10 MyMicrobiome Standard 19.10

Feet Infant skin

MyMicrobiome Standard 22.10 MyMicrobiome Standard 20.10

Sample receipt: 16 October 2020

Test date/period: 18 March - 22 March 2021

Test result: 1,6

Approved yes/no: yes; 07 May 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 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.

	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.

Parameter	Sample no.: 210.322.60
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.





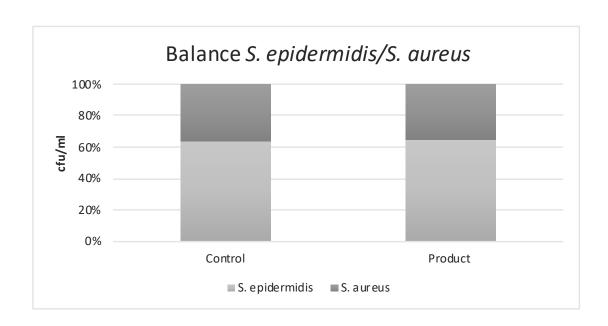
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#### **Results**

• 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 for 15 min. The ratio of the two microbes to each other is determined.

Determination of the bacterial count at time t = 15 min



	cfu/ml		Ratio Product/	
	S. epidermidis	S. aureus	Control	Grade
Control	4,6E+02	2,6E+02	1.0	1
Product	8,1E+02	4,5E+02	1,0	1



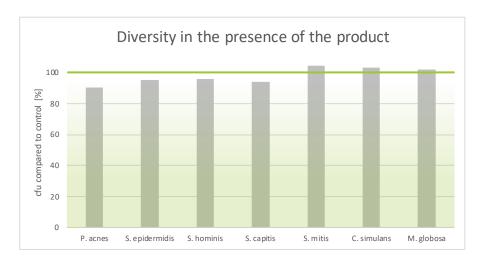


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### **Results**

• 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	Time t=15 min	Rating	
P. acnes	cfu/ml		
Control	3,5E+03	2	
Product	3,2E+03	2	
S. epidermidis			
Control	2,1E+02	1	
Product	2,0E+02	1	
S. hominis			
Control	4,5E+02	1	
Product	4,3E+02	1	
S. capitis			
Control	1,7E+02	1	
Product	1,6E+02	1	
S. mitis			
Control	2,4E+02	1	
Product	2,5E+02	1	
C. simulans			
Control	3,3E+02	1	
Product	3,4E+02	1	
M. globosa			
Control	2,6E+03	1	
Product	2,7E+03		
Overall rating:		1,1	



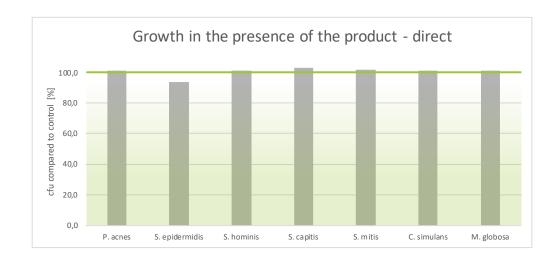


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#### **Results**

 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	924	
r. uches	Product	936	1
S. epidermidis	Control	377	
5. epidermidis	Product	353	2
S. hominis	Control	624	
3. Homins	Product	632	1
C amilia	Control	732	
S. capitis	Product	756	1
S. mitis	Control	326	
5. mitis	Product	331	1
C. simulans	Control	864	
C. Simulans	Product	872	1
M. globosa	Control	1312	
	Product	1328	1
Overal	l rating:		1,1



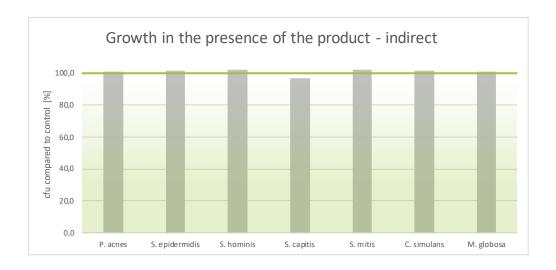


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#### **Results**

 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	932	
	Product	940	1
S. epidermidis	Control	394	
s. epider midis	Product	399	1
S. hominis	Control	652	
3. HOHIIIIS	Product	664	1
S. capitis	Control	696	
	Product	672	1
S. mitis	Control	347	
5. mius	Product	355	1
C. simulans	Control	836	
	Product	848	1
M. globosa	Control	1332	
	Product	1344	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 = Microbiome-friendly 2 = Microbiome-neutral 3 = Microbiome-damaging.

Test	Grade
Balance of the skin microbiome	1,0
Diversity of the corresponding skin microbiome (x2)	1,1
Skin-product contact direct (x2)	1,1
Skin-product contact indirect	1,0
Overall grade	1,1

With an overall grade of 1,1 the seal "Microbiome-friendly" is awarded.

Place, Date: Balzers, 07 May 2021

Responsible person: Dr. Kristin Neumann

Signature:



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