

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

Information about the tested product:

Manufacturer:

MARNA COSMETICS Co., Ltd.

1-3-31, Baraki

Ichikawa, Chiba 272-0004

Japan

Name of the product:

Naturacera Pure Nuts Soap EX, dil. 50 mg/ml (w/v)

1. WHITE ROSE, 2. FRESH CITRUS, 3. PLUMERIA, 4. HERBAL MINT, 5. PREMIUM SAVON,  
6. ROYAL JASMINE, 7. HERBAL GREEN, 8. ZAKURO

Product class:

Rinse Off

Leave On

Standard:

Face / Eyes

MyMicrobiome Standard 18.10

Lips

MyMicrobiome Standard 18.10

Body / Neck / Chest / Hands

MyMicrobiome Standard 18.10

Back

MyMicrobiome Standard 18.10

Bottom / Thighs

MyMicrobiome Standard 18.10

Axillary 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: 28 February 2022

Test period: 13. - 26. April 2022

Test result: 2.0

Approved yes/no: yes; 12 May 2022



#### 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 microbial 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))	$\leq 1 \times 10^2$ cfu/g or ml <sup>a</sup>	$\leq 1 \times 10^3$ cfu/g or ml <sup>b</sup>
<i>Escherichia coli</i>	Not detectable in 1g or 1 ml	Not detectable in 1g or 1 ml
<i>Pseudomonas aeruginosa</i>	Not detectable in 1g or 1 ml	Not detectable in 1g or 1 ml
<i>Staphylococcus aureus</i>	Not detectable in 1g or 1 ml	Not detectable in 1g or 1 ml
<i>Candida albicans</i>	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.: 220.426.3
TAMC [cfu/0,1 ml]	< 1,0E+01
TYMC (incl. <i>Candida albicans</i> ) [in 0,1 ml]	negative
<i>Escherichia coli</i> [in 0,1 ml]	negative
<i>Pseudomonas aeruginosa</i> [in 0,1 ml]	negative
<i>Staphylococcus aureus</i> [in 0,1 ml]	negative

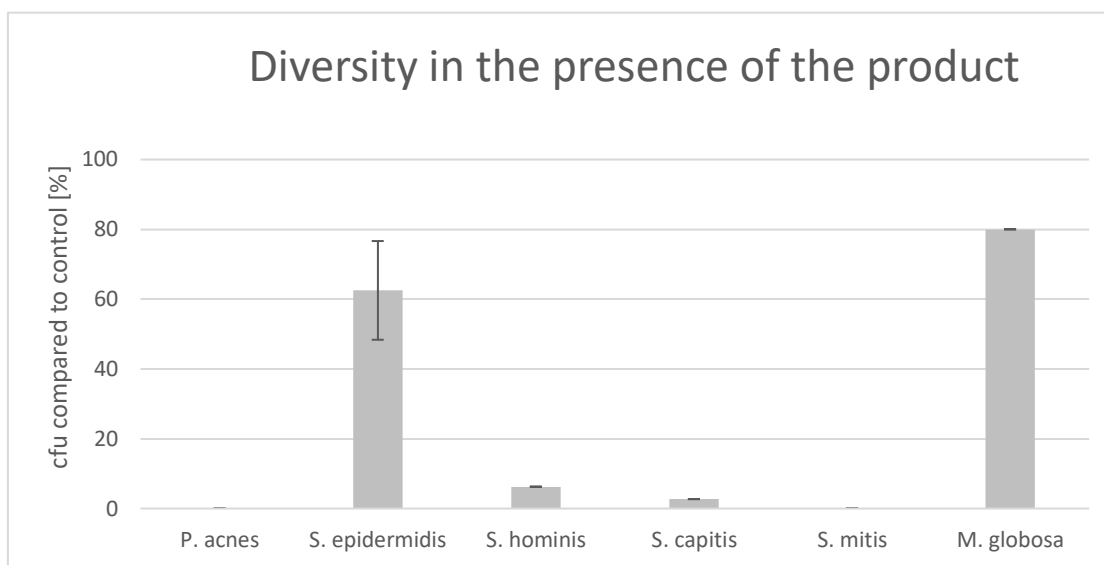
The microbiological quality of the product according to DIN EN ISO 17516 is fulfilled.

### Results

#### 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 microbes compared to the control (PBS) is determined.

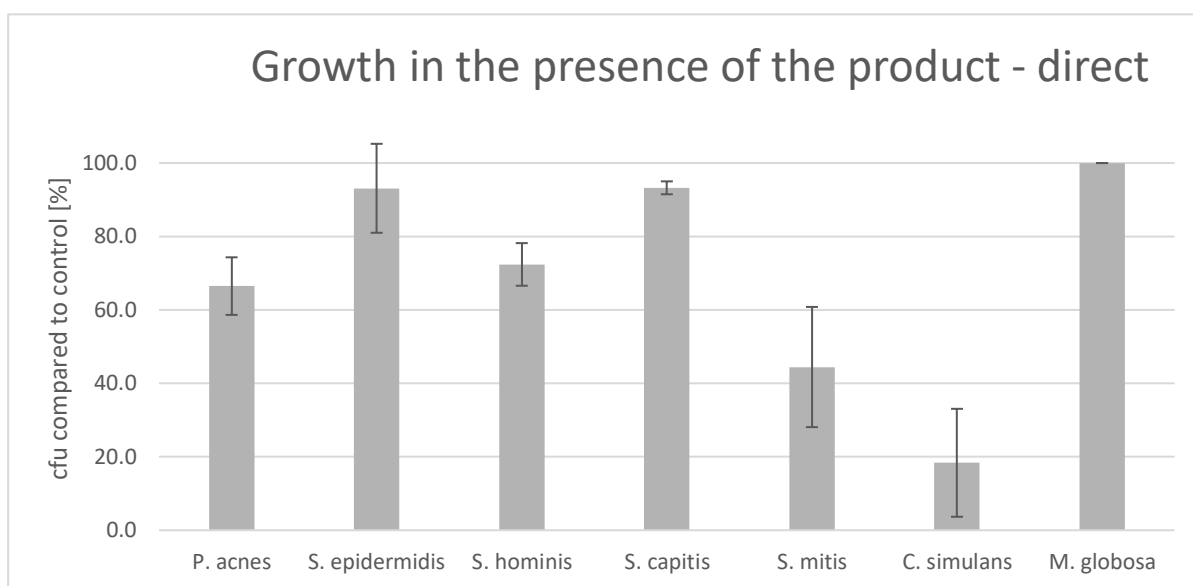


Key-Microbe	t=	15min	Rating
	cfu/ml		
<i>P. acnes</i>	Control	2.3E+01	3
	Product	0.0E+00	
<i>S. epidermidis</i>	Control	4.0E+01	2
	Product	2.5E+01	
<i>S. hominis</i>	Control	2.7E+01	3
	Product	1.7E+00	
<i>S. capitis</i>	Control	6.2E+01	3
	Product	1.7E+00	
<i>S. mitis</i>	Control	6.7E+00	3
	Product	0.0E+00	
<i>M. globosa</i>	Control	5.0E+00	2
	Product	4.0E+00	
Overall rating:			2.7

### 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.

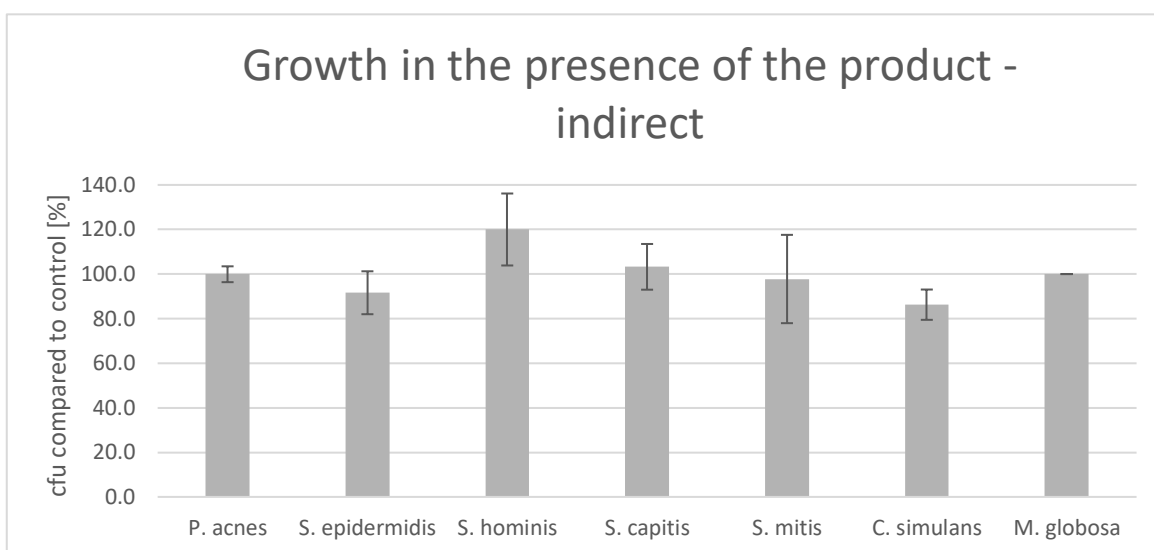


Key-Microbe	cfu /Plate		Rating
	Control	Product	
<i>P. acnes</i>	Control	786.7	2
	Product	523.0	
<i>S. epidermidis</i>	Control	852.7	1
	Product	794.0	
<i>S. hominis</i>	Control	804.0	2
	Product	582.0	
<i>S. capitis</i>	Control	1037.3	1
	Product	967.3	
<i>S. mitis</i>	Control	21.0	3
	Product	9.3	
<i>C. simulans</i>	Control	196.0	3
	Product	36.0	
<i>M. globosa</i>	Control	1.0	1
	Product	1.0	
Overall rating:			1.9

### 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
	Control	Product	
<i>P. acnes</i>	Control	768.0	1
	Product	767.3	
<i>S. epidermidis</i>	Control	668.0	1
	Product	612.0	
<i>S. hominis</i>	Control	730.0	1
	Product	876.0	
<i>S. capitis</i>	Control	1026.7	1
	Product	1060.0	
<i>S. mitis</i>	Control	22.5	1
	Product	22.0	
<i>C. simulans</i>	Control	194.0	1
	Product	167.3	
<i>M. globosa</i>	Control	1.0	1
	Product	1.0	
Overall rating:			1.0

### 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 (x2)	2.7
Skin-product contact direct (x2)	1.9
Skin-product contact indirect	1.0
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, May 12<sup>th</sup>, 2022

Responsible person: Dr. Kristin Neumann

Signature:

