

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
272-0004 Ichikawa, Chiba
Japan

Name of the product:

Naturacera Pure Nuts Soap EX KINMOKUSEI

Product type:	Final product
Application:	Rinse-off
Dilution:	5% in PBS
Sample received:	23 October 2023
Test Start:	25 October 2023
Test End:	16 November 2023
Test Standard:	MyMicrobiome Standard 18.10 Face - Soap
Test result:	1.5
Certification:	Granted

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.

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 ^a	$\leq 1 \times 10^3$ cfu/g or ml ^b
<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*.

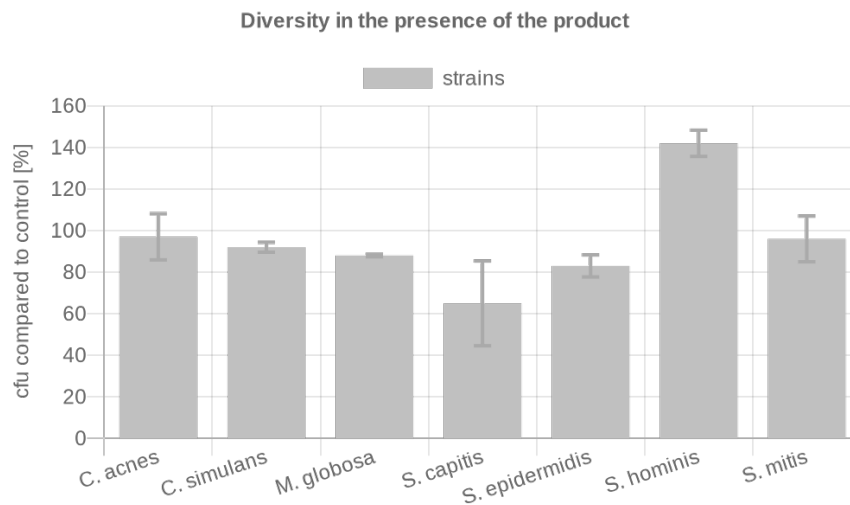
The microbiological quality of the product according to DIN EN ISO 17516 is fulfilled.

Parameter	Sample no.: 24.844.18.1
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

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 t = 15 min (rinse-off) or 4h (leave-on). The ratio of the microbes compared to the control (PBS) is determined.



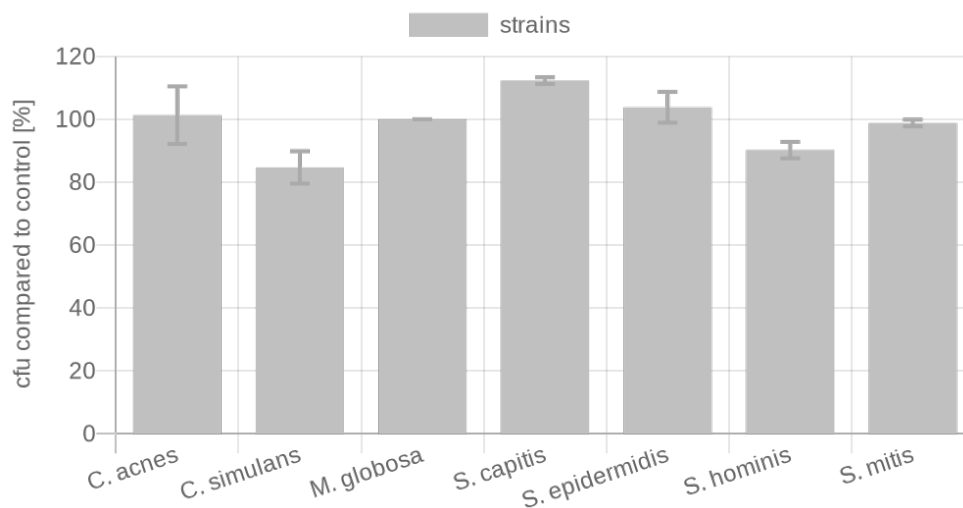
Key-Microbe	t=	15min	Rating
	cfu/ml		
C. acnes	Control	516.7	1
	Product	500	
C. simulans	Control	320	1
	Product	295	
M. globosa confluence	Control	32766.7	2
	Product	28700	
S. capitis	Control	175	3
	Product	113.3	
S. epidermidis	Control	230	2
	Product	190	
S. hominis	Control	236.7	1
	Product	335	
S. mitis	Control	275	1
	Product	263.3	
Overall rating:			1.6

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.

Growth in the presence of the product - direct

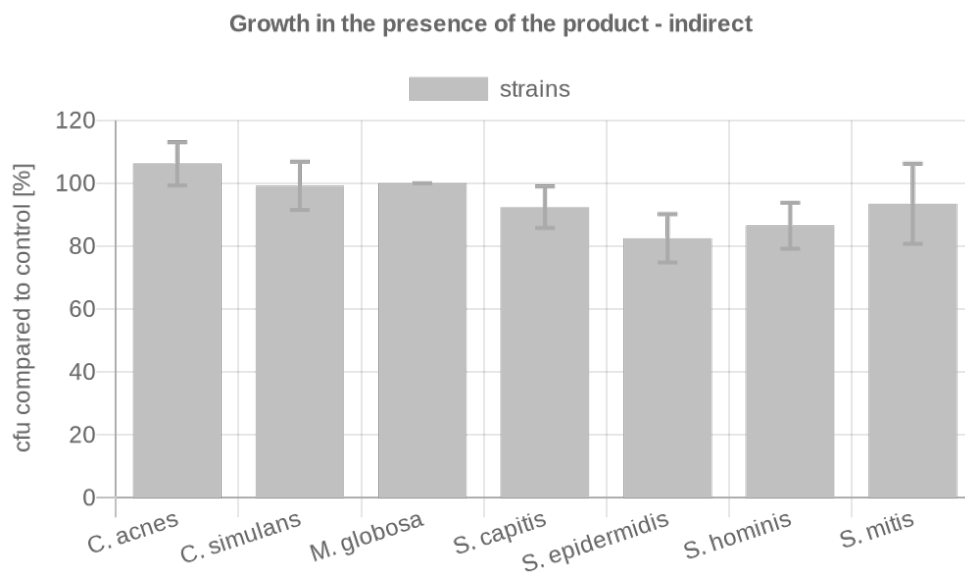


Key-Microbe	cfu/ml		Rating
<i>C. acnes</i>	Control	297.7	1
	Product	301.5	
<i>C. simulans</i>	Control	218	2
	Product	184.7	
<i>M. globosa</i> <i>confluence</i>	Control	100	1
	Product	100	
<i>S. capitis</i>	Control	400.3	1
	Product	449.5	
<i>S. epidermidis</i>	Control	445.3	1
	Product	462	
<i>S. hominis</i>	Control	481.7	2
	Product	434.3	
<i>S. mitis</i>	Control	366	1
	Product	361.7	
Overall rating:			1.3

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/ml		Rating
C. acnes	Control	213.7	1
	Product	227	
C. simulans	Control	119.3	1
	Product	118.3	
M. globosa confluence	Control	100	1
	Product	100	
S. capitis	Control	384.7	2
	Product	355.3	
S. epidermidis	Control	399	2
	Product	329.3	
S. hominis	Control	513	2
	Product	444	
S. mitis	Control	309.3	2
	Product	289.3	
Overall rating:			1.6

Results

The results are evaluated with grades from 1 (one) to 3 (three).

The product has passed up to grade 2.0.

Here the grade means:

1.0 – 2.0 = Microbiome-friendly | 2.1 – 3.0 = Microbiome-influencing

Test	Grade
Diversity of the corresponding skin microbiome (x2)	1.6
Skin-product contact direct (x2)	1.3
Skin-product contact indirect	1.6
Overall grade	1.5

With an overall grade of 1.5 the seal „Microbiome-friendly“ is awarded according to MyMicrobiome Standard 18.10 Face - Soap.

Place, Date: Balzers, 05 February 2024

Responsible person: Dr. Kristin Neumann

Signature:

