

Test report no.: 23.666.19.1

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

Information about the tested product:

Manufacturer:

Normactive Kozmetik San. Ve Tic. Ltd. Şti. Kibris Sehitleri Cad., No 24/12 35230 Konak/Izmir

Turkey

Name of the product:

DANDELIX PRO™ CM

Product type: Ingredient

Application: Rinse-off

Dilution: 1% in PBS

Sample received: 28 September 2023

Test Start: 28 September 2023

Test End: 30 October 2023

Test Standard: MyMicrobiome Standard 19.10 Scalp

Test result: 1.1

Certification: Granted



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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.

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 10² cfu/g or ml³	≤1 x 10³ 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.

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

Parameter	Sample no.: 23.666.19.1	
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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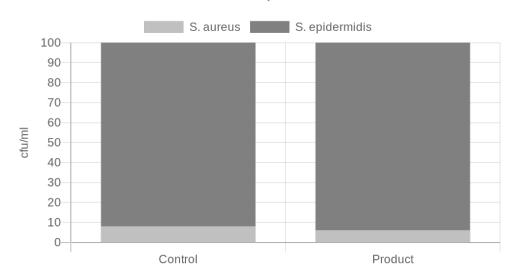
Results

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 (rinse-off) or 4h (leave-on).

S. aureus/S. epidermidis



	cfu	/ml	Ratio Product/	Grade	
	S. aureus	S. epidermidis	Control		
Control	246.7	2810	1.2		
Product	316.7	4583.3	1.3	T	

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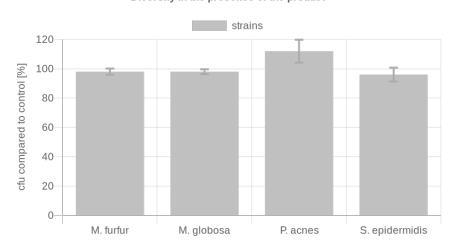
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Results - SCALP -

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.

Diversity in the presence of the product



Key-Microbe	t=	15min	Rating
		cfu/ml	
M. furfur	Control	12266.7	1
	Product	12066.7	1
M. globosa	Control	33733.3	1
	Product	33133.3	1
P. acnes	Control	1100	1
	Product	1230	
S. epidermidis	Control	463.3	1
	Product	443.3	1
Overall rating:			1



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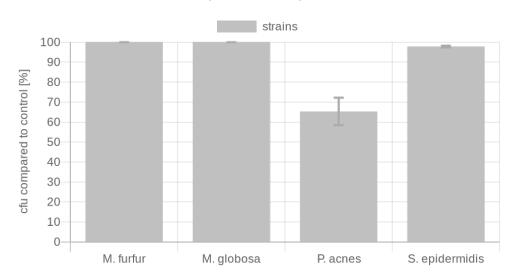
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Results - SCALP -

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
M. furfur confluence	Control	100	1
	Product	100	
M. globosa	Control	100	1
confluence	Product	100	
P. acnes	Control	567.7	2
	Product	370.7	
S. epidermidis	Control	1048.7	1
	Product	1025.7	
Overall rating:			1.3



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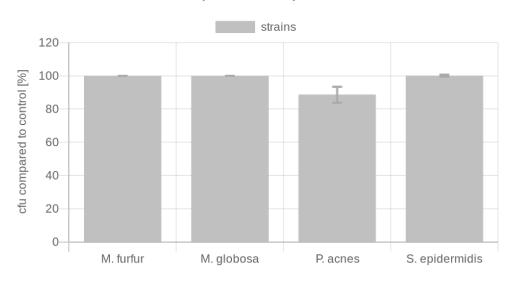
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Results - SCALP -

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.

Growth in the presence of the product - indirect



Key-Microbe	cfu/ml		Rating
M. furfur confluence	Control	100	1
	Product	100	
M. globosa	Control	100	1
confluence	Product	100	
P. acnes	Control	468	2
	Product	414.7	
S. epidermidis	Control	1117.3	1
	Product	1118.7	
Overall rating:			1.3



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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:

$1.0 - 2.0 = Microbiome-friendly \mid 2.1 - 3.0 = Microbiome-influencing$

Test	Grade
Balance of the skin microbiome	1
Diversity of the corresponding skin microbiome (x2)	1
Skin-product contact direct (x2)	1.3
Skin-product contact indirect	1.3
Overall grade	1.1

With an overall grade of 1.1 the seal "Microbiome-friendly" is awarded according to MyMicrobiome Standard 19.10 Scalp.

Place, Date: Balzers, 06 November 2023

Responsible person: Dr. Kristin Neumann

Signature: