

Test report no.: 23.766.18.1

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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:

Schwan Cosmetics International GmbH

Schwanweg 1

90562 Heroldsberg

Germany

Name of the product:

MA MATCH BR 52260

Product type: Final product

Application: Leave-on

Dilution: No

Sample received: 20 October 2023

Test Start: 23 October 2023

Test End: 14 November 2023

Test Standard: MyMicrobiome Standard 18.10 Face

Test result: 1.4

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.

T	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 ^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.: 23.766.18.1	
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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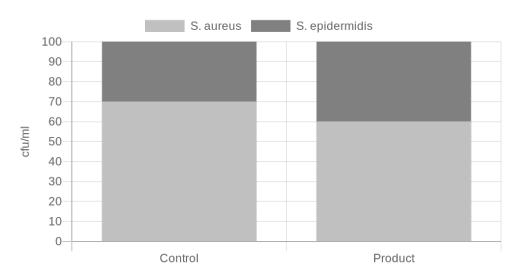
Results

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	ru/ml Ratio Product/		Crada
	S. aureus	S. epidermidis	Control	Grade
Control	64533.3	28000	1.5	
Product	20466.7	13600	1.5	1



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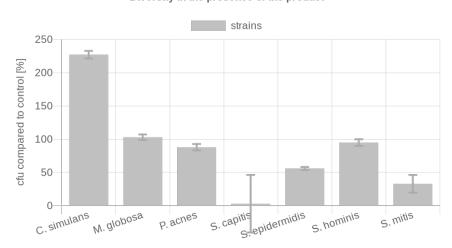
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Results - SEBACEOUS -

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=	4h	Rating
		cfu/ml	
C. simulans	Control	1100	3
	Product	2500	3
M. globosa	Control	21800	1
confluence	Product	22400	1
D sense	Control	543.3	1
P. acnes	Product	476.7	
S. capitis	Control	4400	3
	Product	133.3	3
S. epidermidis	Control	4750	3
	Product	2666.7	3
S. hominis	Control	10600	1
	Product	10100	
S. mitis	Control	266.7	3
	Product	86.7	3
Overall rating:			2.1



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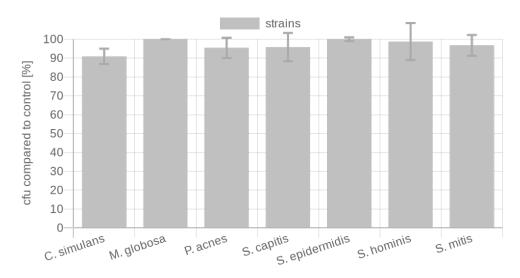
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Results - SEBACEOUS -

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	
C. simulans	Control	448.7	2
	Product	408	2
M. globosa	Control	100	1
confluence	Product	100	1
_	Control	548.3	1
P. acnes	Product	523.3	1
S. capitis	Control	502.3	1
	Product	481	1
S. epidermidis	Control	1078.3	1
	Product	1078.7	
S. hominis	Control	270.7	1
	Product	267.3	
S. mitis	Control	572.7	1
	Product	554	1
Overall rating:			1.1



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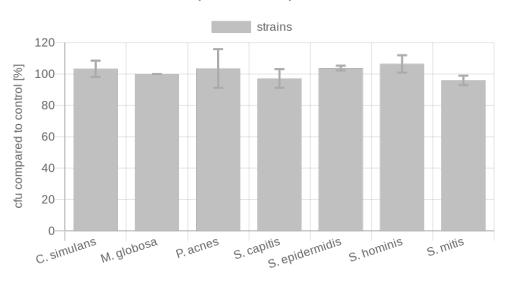
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Results - SEBACEOUS -

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	
C. simulans	Control	728.3	1
	Product	752.3	1
M. globosa	Control	100	1
confluence	Product	100]
P. acnes	Control	324.7	1
	Product	336	1
S. capitis	Control	625.7	1
	Product	607.3	1
S. epidermidis	Control	1032.3	1
	Product	1070	
S. hominis	Control	332	1
	Product	353.3	
S. mitis	Control	397.3	1
	Product	381	1
Overall rating:			1



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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)	2.1
Skin-product contact direct (x2)	1.1
Skin-product contact indirect	1
Overall grade	1.4

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

Place, Date: Balzers, 14 November 2023

Responsible person: Dr. Kristin Neumann

Signature: