

Test report no.: 23.675.18.1

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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:

Space Brands Ltd.

1st Floor, 175/176 Tottenham Court Road W1T 7NU W1T 7NU London

UK

Name of the product:

EL SC RADIANCE REPAIR RETINOL SERUM

Product type: Final product

Application: Leave-on

Dilution: No

Sample received: 26 July 2023

Test Start: 27 July 2023

Test End: 28 August 2023

Test Standard: MyMicrobiome Standard 18.10 Face

Test result: 1.7

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.: 23.675.18.1
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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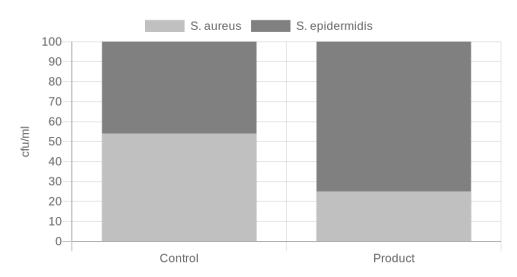
Results

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	/ml	Ratio Product/	Cuada	
	S. aureus	S. epidermidis	Control	Grade	
Control	8766.7	7433.3	2.6	1	
Product	2000	6033.3	3.6	1	



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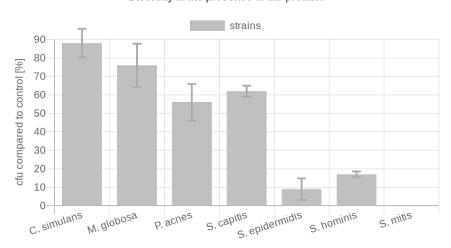
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Results - SEBACEOUS -

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	620	2
	Product	543.3	2
M. globosa	Control	9200	2
confluence	Product	7000	2
P. acnes	Control	690	3
P. acnes	Product	383.3	3
S. capitis	Control	310	2
	Product	193.3	3
S. epidermidis	Control	2110	3
	Product	196.7	3
C haminia	Control	2136.7	2
S. hominis	Product	356.7	3
S. mitis	Control		
S. mitis	Product		
Overall rating:			2.7



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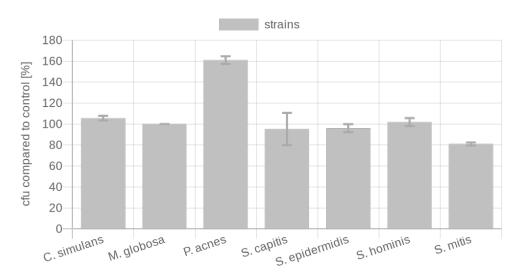
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Results - SEBACEOUS -

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	249.3	1
	Product	263.3	1
M. globosa	Control	100	1
confluence	Product	100	1
P. acnes	Control	185.3	2
	Product	298.3	2
C	Control	265.7	1
S. capitis	Product	253.3	1
S. epidermidis	Control	497.3	1
	Product	478	
S. hominis	Control	580.3	1
	Product	591.3	
S. mitis	Control	133.7	2
	Product	108.3	
Overall rating:			1.3



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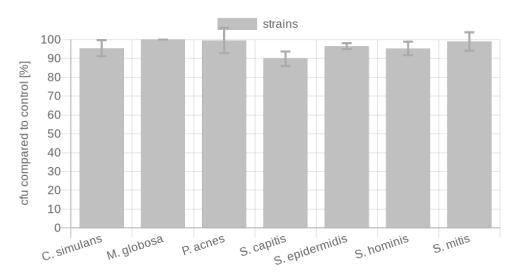
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Results - SEBACEOUS -

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	281.7	1
	Product	268.7	1
M. globosa	Control	80	1
confluence	Product	80]
D =====	Control	203.3	1
P. acnes	Product	202.3	1
S. capitis	Control	310.3	2
	Product	278.7	2
C anidarmidia	Control	507.3	1
S. epidermidis	Product	489.3	
S. hominis	Control	567.7	1
	Product	541.3	
S. mitis	Control	121.5	1
	Product	120.3	
Overall rating:			1.1



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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)	2.7
Skin-product contact direct (x2)	1.3
Skin-product contact indirect	1.1
Overall grade	1.7

With an overall grade of 1.7 the seal "Microbiome-friendly" is awarded according to MyMicrobiome Standard 18.10 Face.

Place, Date: Balzers, 28 August 2023

Responsible person: Dr. Kristin Neumann

Signature: