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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: Permamed AG Ringstraße 29, Postfach 360 4106 Therwil Switzerland

Name of the product:

Lubex anti-age multi serum intensive

Product type:	Final product
Application:	Leave-on
Dilution:	No
Sample received:	17 November 2023
Test Start:	27 November 2023
Test End:	19 December 2023
Test Standard:	MyMicrobiome Standard 18.10 Face
Test result:	2.0
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 mlª	≤1 x 10 ³ 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.: 23.768.18.1
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



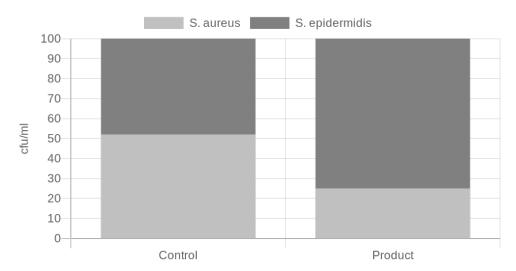
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Results

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/	Crada
	S. aureus	S. epidermidis	Control	Grade
Control	38700	35966.7	2.2	1
Product	1870	5736.7	3.3	1

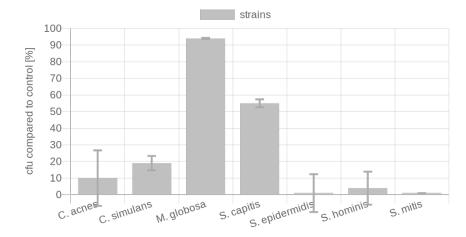


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Results - SEBACEOUS -

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. acnes	Control	613.3	- 3
	Product	60	3
C. simulans	Control	1200	- 3
C. simulans	Product	230	- 3
M. globosa	Control	51333.3	2
confluence	Product	48100	Ζ
C. comitic	Control	750	2
S. capitis	Product	410	- 3
C on idormidio	Control	16333.3	3
S. epidermidis	Product	203.3	- 3
C. haminia	Control	9133.3	2
S. hominis	Product	323.3	- 3
S. mitis	Control	1126.7	2
	Product	10	3
Overall rating:			2.9

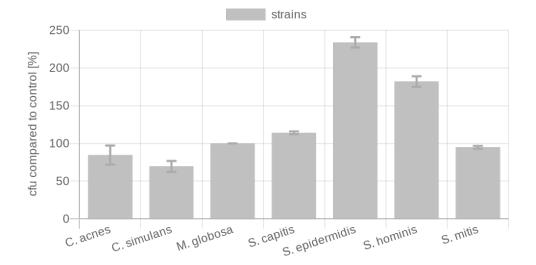


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Results - SEBACEOUS -

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		Rating
C. acnes	Control	373.7	- 2
	Product	316.3	Z
C aimeulana	Control	1585.7	2
C. simulans	Product	1102.7	2
M. globosa	Control	100	1
confluence	Product	100	- 1
S. capitis	Control	398	1
	Product	454	
	Control	128.3	3
S. epidermidis	Product	300	
S. hominis	Control	398.7	3
	Product	725.7	
C mitia	Control	2381	2
S. mitis	Product	2260.3	
Overall rating:			2

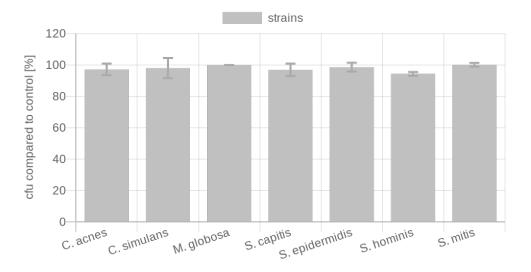


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Results – SEBACEOUS -

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	C	cfu/ml	
C. acnes	Control	252.7	1
	Product	245.7	T
C. simulans	Control	1215	1
C. simulans	Product	1190.7	1
M. globosa	Control	100	1
confluence	Product	100	1
S. capitis	Control	436	1
	Product	422.7	
S. epidermidis	Control	282.3	1
	Product	278.3	
C. hominio	Control	693	2
S. hominis	Product	653.5	
S. mitis	Control	1914.7	1
	Product	1916.7	
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 | 2.1 – 3.0 = Microbiome-influencing

Test	Grade
Balance of the skin microbiome	1
Diversity of the corresponding skin microbiome (x2)	2.9
Skin-product contact direct (x2)	2
Skin-product contact indirect	1.1
Overall grade	2.0

With an overall grade of 2.0 the seal "Microbiome-friendly" is awarded according to MyMicrobiome Standard 18.10 Face.

Place, Date:

Balzers, 19 December 2023

Responsible person:

Dr. Kristin Neumann

Signature:

Venna