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

Information about the tested product:

Manufacturer:
Dow Silicones Corporation
2200 West Salzburg Road
MI 48611 Auburn
USA

Name of the product:
DOWSIL™ 979 Emulsion

Product type:	Ingredient
Application:	Rinse-off
Dilution:	6% (+33% rinse-off) in water
Sample received:	05 February 2026
Test Start:	13 February 2026
Test End:	13 March 2026
Test Standard:	**MyMicrobiome Standard 19.20 Scalp**
Test result:	**1.6**
Certification:	Granted

Test description

The MyMicrobiome Standard evaluates the influence of cosmetics, personal care products and pharmaceuticals on the microbial key players located at a specific skin or mucous membrane site.

An intact skin microbiome has a fundamental influence on skin health. Skin-friendly products must also be microbiome-friendly and ensure the maintenance of the balance among the skin microorganisms of the user.

Every person's microbiome is unique. Each body area, however, harbors a characteristic composition of bacteria, viruses and fungi. The test examines the product's 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.

To be evaluated according to our standard, the product needs to be free of contaminants. This is verified in the microbial quality test.

The influence of the product on the natural, healthy skin balance.

The skin-commensal bacterium *Staphylococcus epidermidi*s produces antimicrobial peptides (so-called bacteriocins) and regulates skin pH, which keeps harmful microorganisms, such as *Staphylococcus aureus* in check. The product should not disturb the balance between friendly and 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 set of microorganisms. For healthy microbiome, it is particularly important to maintain this biodiversity. The influence of the product on the respective microbial composition 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 microorganisms in a specific body area, the growth of the individual key organisms should not be influenced by the product. The key organisms are brought into direct and indirect contact with the product and their growth is observed.

Results

The microbiological quality of the product.

The prerequisite for the test for microbial friendliness is the microbiological quality of the product based on DIN ISO 17516. The following table contains the limit values for contaminants that must be observed.

Types of organisms	Limit values
Total aerobic microbial count (TAMC) and total combined yeasts/ moulds count (TYMC)	≤ 20 cfu*/g or ml

* colony forming units (cfu)

Results microbiological quality

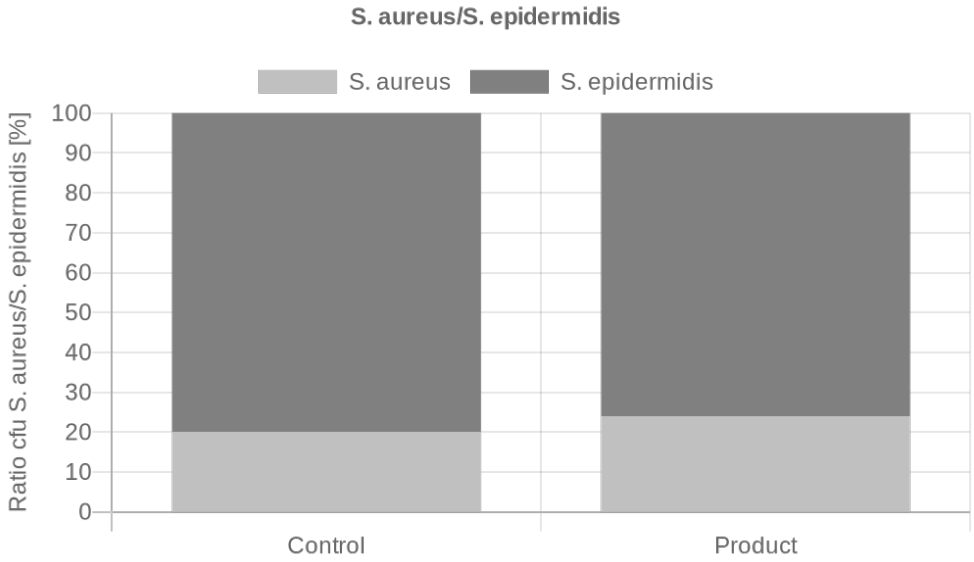
Parameter	Sample no.: 26.1199.19.1
TAMC and TYMC [cfu/0,1 ml]	< 20

The microbiological quality of the product is fulfilled.

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 for 15 min (rinse-off) or 4h (leave-on). Bacterial counts are determined, the ratio of the two microbes to each other is assessed and compared to the control sample (PBS).

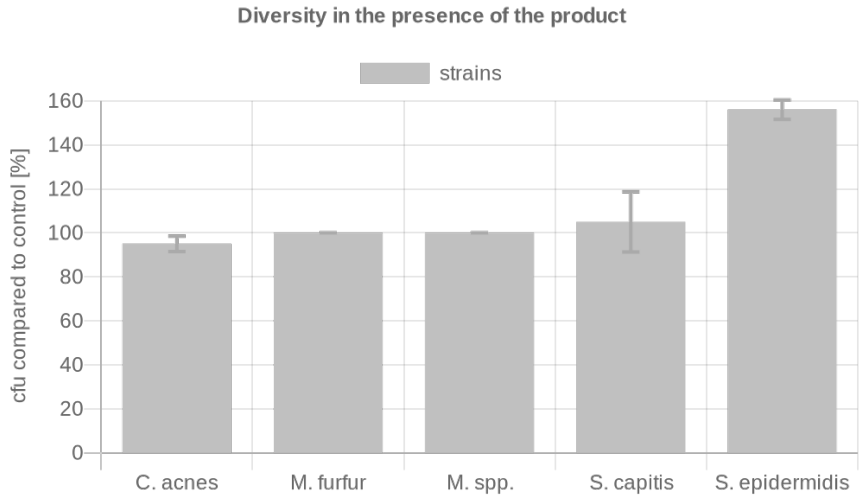


	cfu/ml		Ratio Product/ Control	Grade
	S. aureus	***S. epidermidis***		
Control	1040	4160	0.8	**2.0**
Product	1080	3413.3		

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 15 min (rinse-off) or 4h (leave-on). Bacterial colonies are counted, and the ratio of the cfu in the presence of the product compared to the control (PBS) is determined.

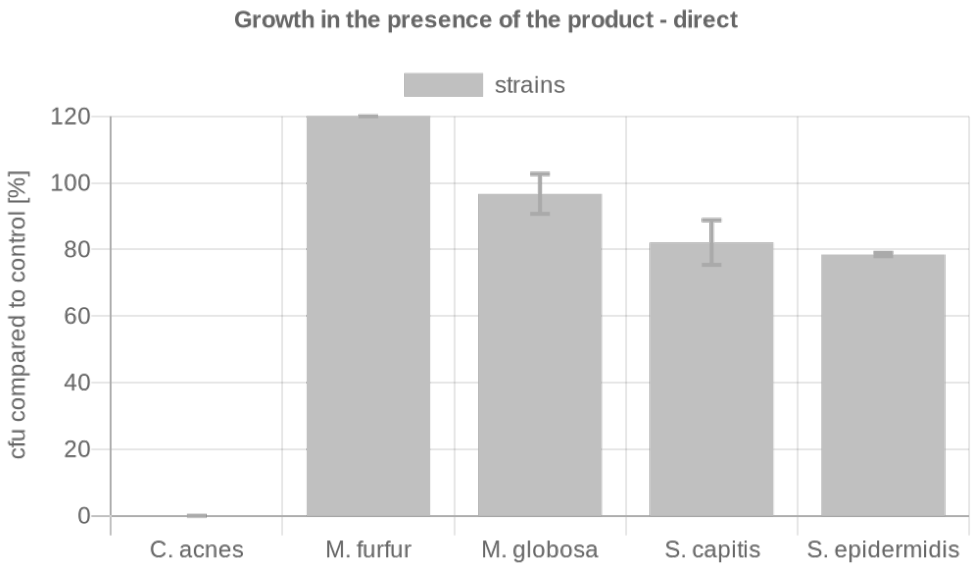


Key-Microbe	t=	15min	Rating
	cfu/ml		
C. acnes	Control	1253.3	2
	Product	1186.7	
M. furfur	Control	10000	1
	Product	10000	
M. spp.	Control	10000	1
	Product	10000	
S. capitis	Control	486.7	1
	Product	513.3	
S. epidermidis	Control	310	2
	Product	485	
Overall rating:			**1.4**

Results

The influence of the product on the growth behavior of the microbes of a specific body region – directly.

The influence of the product on the growth of each individual key organism of the specific body region is investigated and the ratio of the cfu in the presence of the product is calculated in % relative to the control sample (PBS). Product contact with the microorganisms is direct.

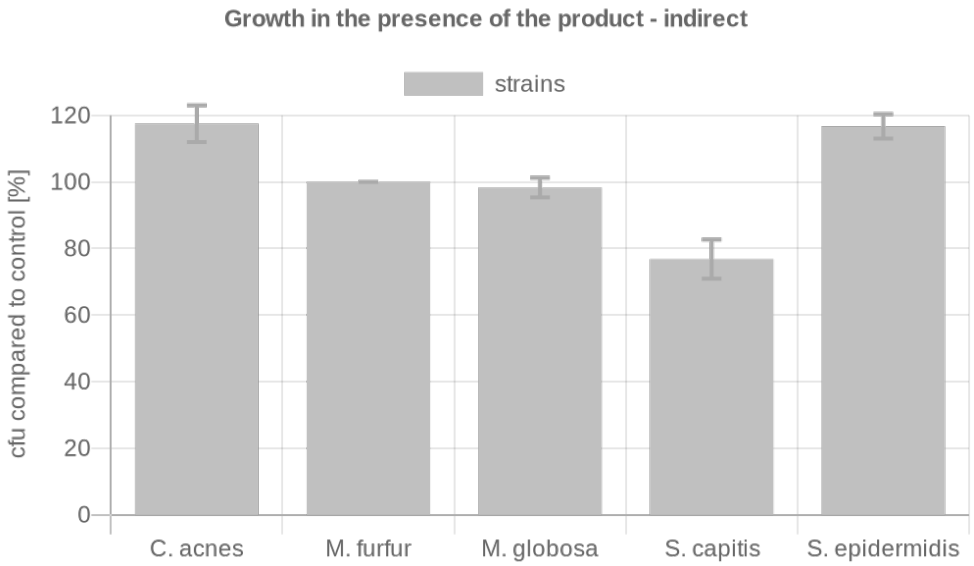


Key-Microbe	cfu/ml		Rating
C. acnes	Control	426	3
	Product	0	
M. furfur	Control	100	1
	Product	120	
M. globosa	Control	100	1
	Product	96.7	
S. capitis	Control	563.3	2
	Product	462.7	
S. epidermidis	Control	685	2
	Product	538	
Overall rating:			**1.8**

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 key organism of the specific body region is investigated and the ratio of the cfu in the presence of the product is calculated in % relative to the control sample (PBS). Product contact with the microorganisms is indirect.



Key-Microbe	cfu/ml		Rating
C. acnes	Control	308.7	1
	Product	362.7	
M. furfur	Control	100	1
	Product	100	
M. globosa	Control	100	1
	Product	98.3	
S. capitis	Control	420.7	2
	Product	323.3	
S. epidermidis	Control	465	1
	Product	542.7	
Overall rating:			**1.2**

Results

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

The product has passed if it obtains grades between 1.0 and 2.0.

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

Test	Grade
Balance of the skin microbiome	2.0
Diversity of the corresponding skin microbiome (x2)	1.4
Skin-product contact direct (x2)	1.8
Skin-product contact indirect	1.2
Overall grade	**1.6**

With an overall grade of 1.6 the seal „Microbiome-friendly“ is awarded according to MyMicrobiome Standard 19.20 Scalp.

Place, Date: Hauptwil, 13 March 2026

Responsible person: Dr. Kristin Neumann

Signature: