The influence of the product on the key organisms of the canine skin was examined.

Information about the tested product:

Manufacturer:
Skout's Honor
3927 Oceanic Drive
CA 92056 Oceanside
USA

Name of the product:
Probiotic Honeysuckle Deodorizer LOT # 24-071-HS

Product type:	Final product
Application:	Leave-on
Dilution:	No
Sample received:	17 March 2025
Test Start:	31 March 2025
Test End:	30 April 2025
Test Standard:	**MyMicrobiome Standard 58.10. Canine**
Test result:	**2.0**
Certification:	granted

Test description

The MyMicrobiome Standard evaluates the influence of pet care products and pharmaceuticals on the microbial key players of canine skin.

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.

Every pet's microbiome is unique. Each pet, however, harbors a characteristic composition of bacteria, viruses and fungi. The test examines the product's influence on the key organisms typical for canine skin 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.

Staphylococcus pseudintermedius is a bacterium found in the fur of most dogs. Under certain circumstances, the bacterium can colonize the surface of the skin, the hair follicles and occasionally also deeper layers of the skin. When the microclimate of the skin changes, the bacteria can multiply and then cause skin infections. The skin-commensal bacterium *Staphylococcus epidermidi*s produces antimicrobial peptides (so-called bacteriocins) and regulates skin pH, which keeps potentially skin-harmful microorganisms, such as *Staphylococcus pseudintermedius* in check. The product should not disturb the 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 canine skin.

Canine skin is colonized by a certain set of microorganisms, and it is particularly important to maintain this biodiversity to keep the skin healthy. 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 canine skin.

In addition to the diversity of the microorganisms, 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

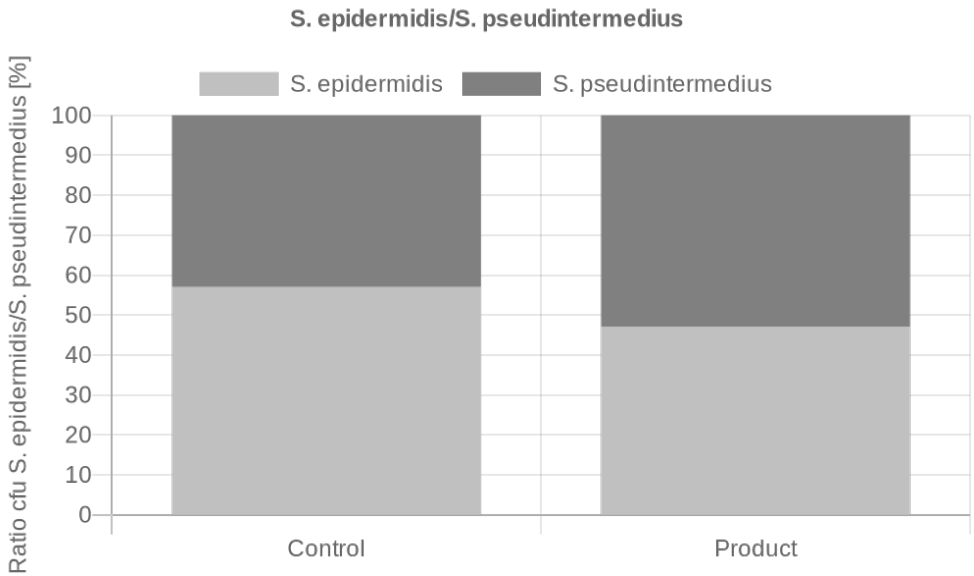
Parameter	Sample no.: 25.1020.58.1
TAMC and TYMC [cfu/0,1 ml]	< 20

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. pseudintermedius* 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).

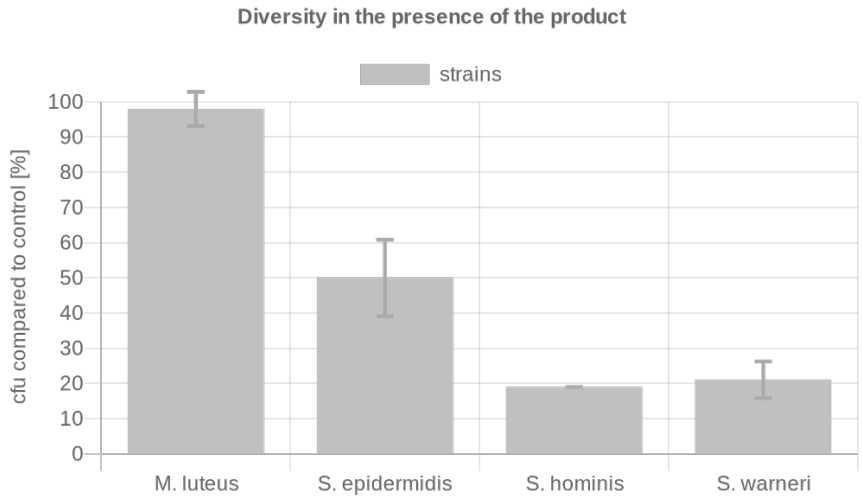


	cfu/ml		Ratio Product/ Control	Grade
	S. epidermidis	***S. pseudintermedius***		
Control	546.7	420	0.7	**2.0**
Product	263.3	300		

Results

The influence of the product on the microbial diversity of the canine skin.

A co-culture of key organisms of the canine skin 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=	4h	Rating
	cfu/ml		
M. luteus	Control	1483,3	1
	Product	1450	
S. epidermidis	Control	650	3
	Product	325	
S. hominis	Control	1050	3
	Product	200	
S. warneri	Control	3150	3
	Product	675	
Overall rating:			**2.5**

Results

The influence of the product on the growth behavior of the microbes of the canine skin – directly.

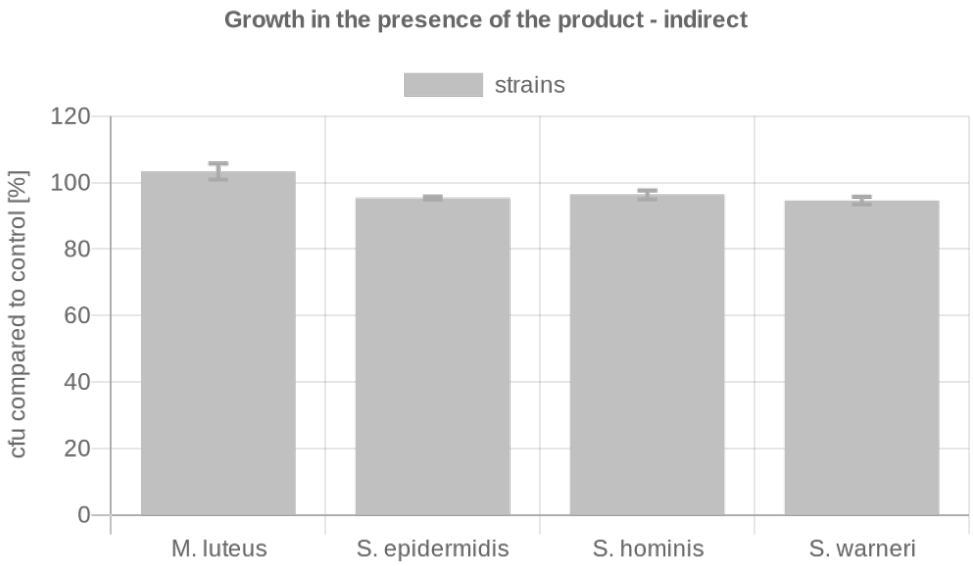
The influence of the product on the growth of each individual key organism is investigated and the ratio of the cfu in the presence of the product is calculated in % relative to the control sample (PBS). Product contact with microorganisms is direct.

Key-Microbe	cfu/ml		Rating
M. luteus	Control	159.7	1
	Product	194.5	
S. epidermidis	Control	1764.7	2
	Product	1258.3	
S. hominis	Control	484.3	2
	Product	408.3	
S. warneri	Control	397.3	3
	Product	185	
Overall rating:			**2.0**

Results

The influence of the product on the growth behavior of the microbes of the canine skin – indirectly.

The influence of the product on the growth of each individual key organism 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 microorganisms is indirect.



Key-Microbe	cfu/ml		Rating
M. luteus	Control	201.7	1
	Product	208.3	
S. epidermidis	Control	1075.5	1
	Product	1025	
S. hominis	Control	500.3	1
	Product	481.7	
S. warneri	Control	601.5	2
	Product	569.3	
Overall rating:			**1.3**

Results

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

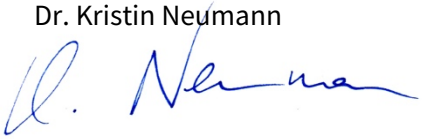
The product has passed if it obtains grades between 1.0 and 2.0.

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

Test	Grade
Balance of the skin microbiome	2.0
Diversity of the skin microbiome (x2)	2.5
Product contact direct (x2)	2.0
Product contact indirect	1.3
Overall grade	**2.0**

With an overall grade of 2.0 the seal „Microbiome-friendly“ is awarded according to MyMicrobiome Standard 58.10. Canine.

Place, Date: Balzers, 30 April 2025

Responsible person: Dr. Kristin Neumann

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