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

Information about the tested product:

Manufacturer:
Chongqing Baiya Sanitary Products Co.,Ltd.
Maliu Riverside Development Zone
400000 Chong Qing
China

Name of the product:
Freemore® Probiotic LA88™ series sanitary napkin

Product type:	Non Woven
Sample received:	05 May 2025
Test Start:	08 May 2025
Test End:	20 June 2025
Test Standard:	**MyMicrobiome Standard 45.10 Vulvo-Vaginal**
Test result:	**1.4**
Certification:	granted

Test description

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

An intact vulvo vaginal microbiome has a fundamental influence on female health. Products suitable for the intimate area must also be microbiome-friendly and ensure the maintenance of the balance among the vulvo vaginal 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 body 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 vaginal balance.

The commensal bacterium *Lactobacillus crispatus* is co-cultivated with the pathogenic bacterium *Gardnerella vaginalis.* The co-culture is brought in contact with the product to be tested, which should not disturb the balance between friendly and harmful bacteria.

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 of the vulvo vaginal area 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 of the vulvo vaginal area 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

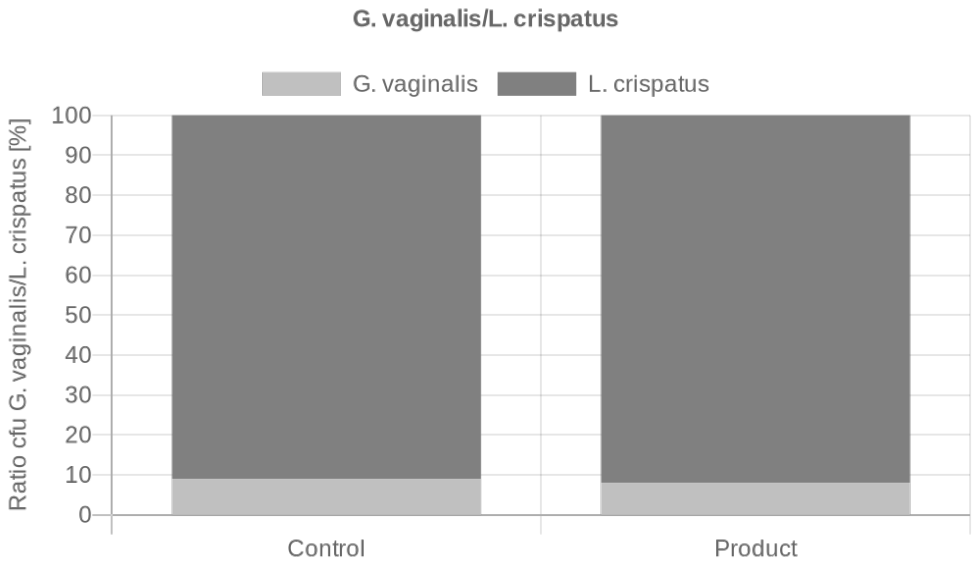
Parameter	Sample no.: 25.T037.45.3
TAMC and TYMC [cfu/0,1 ml]	< 20

The microbiological quality of the product is fulfilled.

Results

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

A co-culture of *L. crispatus* and *G. vaginalis* is incubated with the product for 15 min (rinse-off) or 4h (leave-on). Bacterial counts are determined and the cfu ratio of the two bacteria in the presence of the product is assessed and compared to the control sample (PBS).

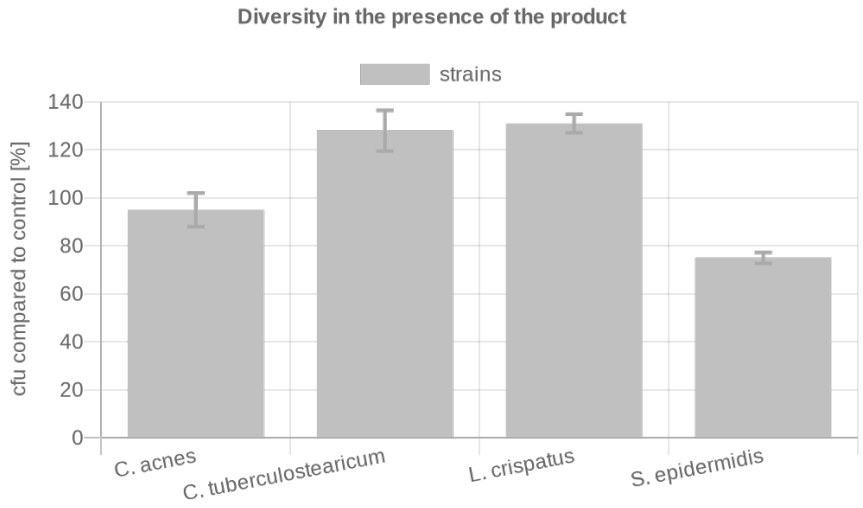


	cfu/ml		Ratio Product/ Control	Grade
Control	1750	17000	1.2	**1.0**
Product	1933.3	22566.7		

Results

The influence of the product on the microbial diversity of the specific body region.

Cultures of the key organisms present in the vulvo vaginal area are incubated with the product for 15 min (rinse-off) or 4h (leave-on). Bacterial colonies are counted, and the cfu ratios in the presence of the product are calculated in % relative to the control sample (PBS).

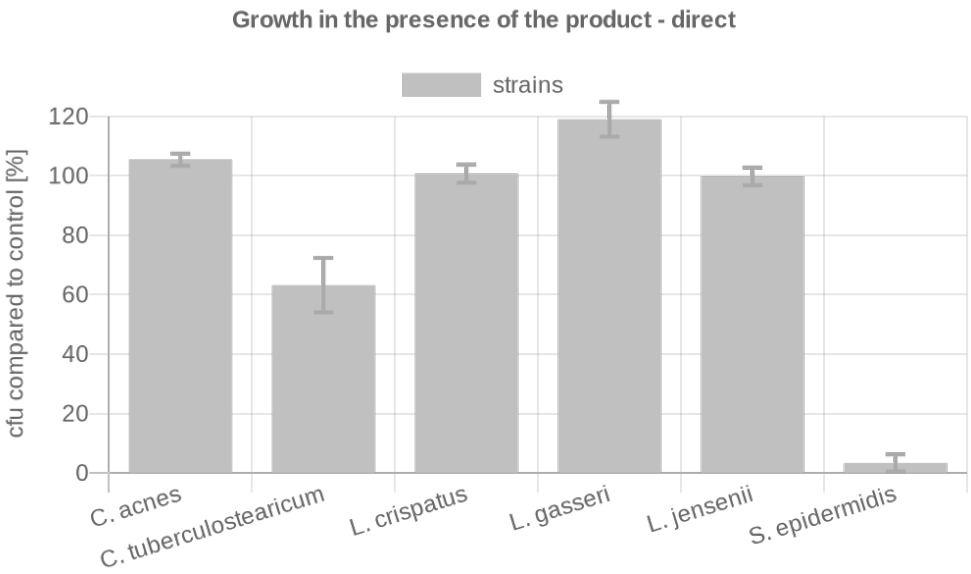


Key-Microbe	t=	cfu/ml	Rating
C. acnes	Control	57	1
	Product	54.3	
C. tuberculostearicum	Control	59.5	2
	Product	76.3	
L. crispatus	Control	276	1
	Product	362	
S. epidermidis	Control	203	2
	Product	152	
Overall rating:			**1.5**

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 vulvo vaginal area is investigated and the cfu ratio 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
C. acnes	Control	105	1
	Product	110.7	
C. tuberculostearicum	Control	84.7	2
	Product	53.5	
L. crispatus	Control	1352.7	1
	Product	1362.7	
L. gasseri	Control	144	1
	Product	171.3	
L. jensenii	Control	83.5	1
	Product	83.3	
S. epidermidis	Control	717	3
	Product	24.5	
Overall rating:			**1.5**

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 vaginal microbiome	1.0
Diversity of the corresponding microbiome (x2)	1.5
Product contact direct (x2)	1.5
Overall grade	**1.4**

With an overall grade of 1.4 the seal „Microbiome-friendly“ is awarded according to MyMicrobiome Standard 45.10 Vulvo-Vaginal.

Place, Date: Hauptwil, 23 July 2025

Responsible person: Dr. Kristin Neumann

Signature: