

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

### Information about the tested product:

#### Manufacturer:

Evyap Hijyenik Ürünler Sanayi ve Ticaret A.Ş.  
Istanbul Deri Oragnize Sanayi Bölgesi Güderi Cad. No. 1 X-1 Parsel  
34957 Istanbul  
Turkey

#### Name of the product:

BBCRM0223001 - Evyap Baby Diaper Cream

<b>Product type:</b>	Final product
<b>Application:</b>	Leave-on
<b>Dilution:</b>	No
<b>Sample received:</b>	13 June 2023
<b>Test Start:</b>	07 December 2023
<b>Test End:</b>	20 December 2023
<b>Test Standard:</b>	<b>MyMicrobiome Standard 20.10 Baby</b>
<b>Test result:</b>	<b>2.0</b>
<b>Certification:</b>	Granted

## 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.

### 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
<b>Total counts mesophilic, aerobic microorganisms (bacteria, yeasts, molds, (TAMC and TYMC))</b>	$\leq 1 \times 10^2$ cfu/g or ml <sup>a</sup>	$\leq 1 \times 10^3$ cfu/g or ml <sup>b</sup>
<i>Escherichia coli</i>	Not detectable in 1g or 1 ml	Not detectable in 1g or 1 ml
<i>Pseudomonas aeruginosa</i>	Not detectable in 1g or 1 ml	Not detectable in 1g or 1 ml
<i>Staphylococcus aureus</i>	Not detectable in 1g or 1 ml	Not detectable in 1g or 1 ml
<i>Candida albicans</i>	Not detectable in 1g or 1 ml	Not detectable in 1g or 1 ml
<b>a &gt;200 cfu/g or ml, b &gt;2000 cfu/g or ml</b>		

#### 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.**

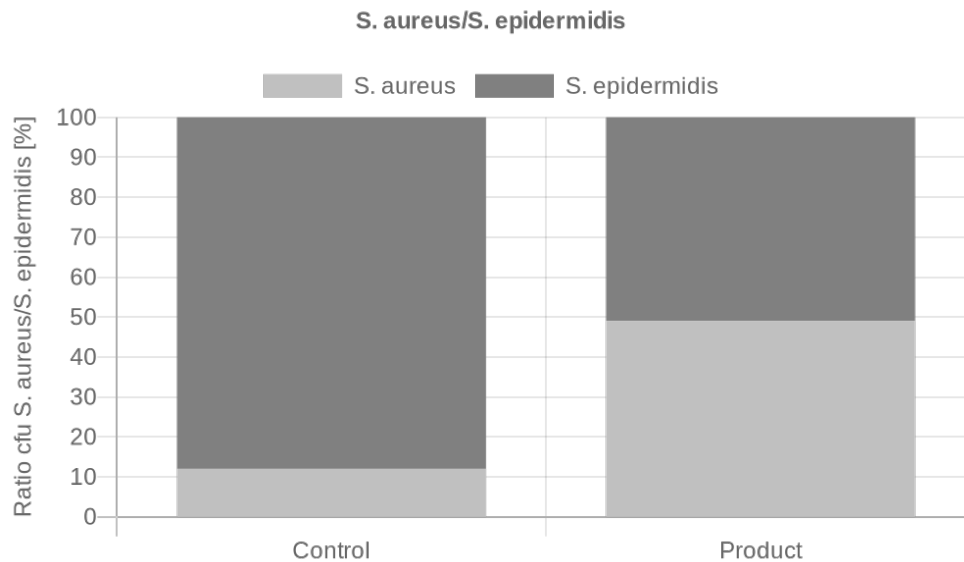
Parameter	Sample no.: 23.657.20.3
TAMC [cfu/0,1 ml]	< 1,0E+01
TYMC (incl. <i>Candida albicans</i> ) [in 0,1 ml]	negative
<i>Escherichia coli</i> [in 0,1 ml]	negative
<i>Pseudomonas aeruginosa</i> [in 0,1 ml]	negative
<i>Staphylococcus aureus</i> [in 0,1 ml]	negative

## 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).

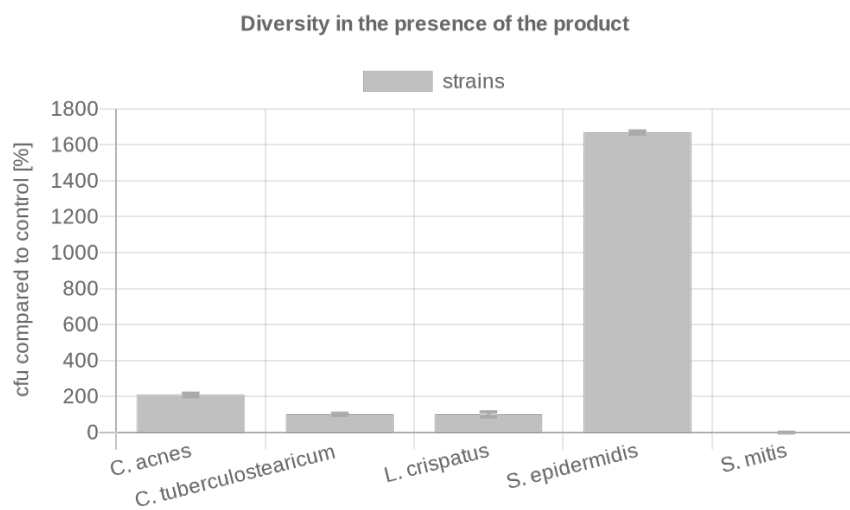


	cfu/ml		Ratio Product/ Control	Grade
	<i>S. aureus</i>	<i>S. epidermidis</i>		
<b>Control</b>	963.3	7300	0.1	<b>3.0</b>
<b>Product</b>	22100	22600		

## Results – INFANT -

### 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.



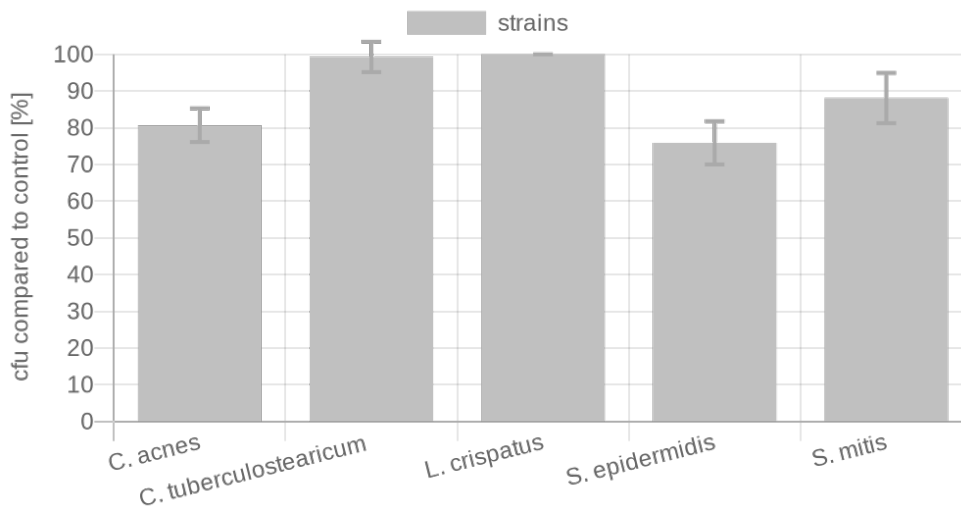
Key-Microbe	t=	4h	Rating
	cfu/ml		
<b>C. acnes</b>	Control	526.7	3
	Product	1096.7	
<b>C. tuberculo-stearicum</b>	Control	1160	1
	Product	1163.3	
<b>L. crispatus</b>	Control	116.7	1
	Product	116.7	
<b>S. epidermidis</b>	Control	123.3	3
	Product	2056.7	
<b>S. mitis</b>	Control	100	3
	Product	0	
<b>Overall rating:</b>			<b>2.2</b>

## Results – INFANT -

### 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

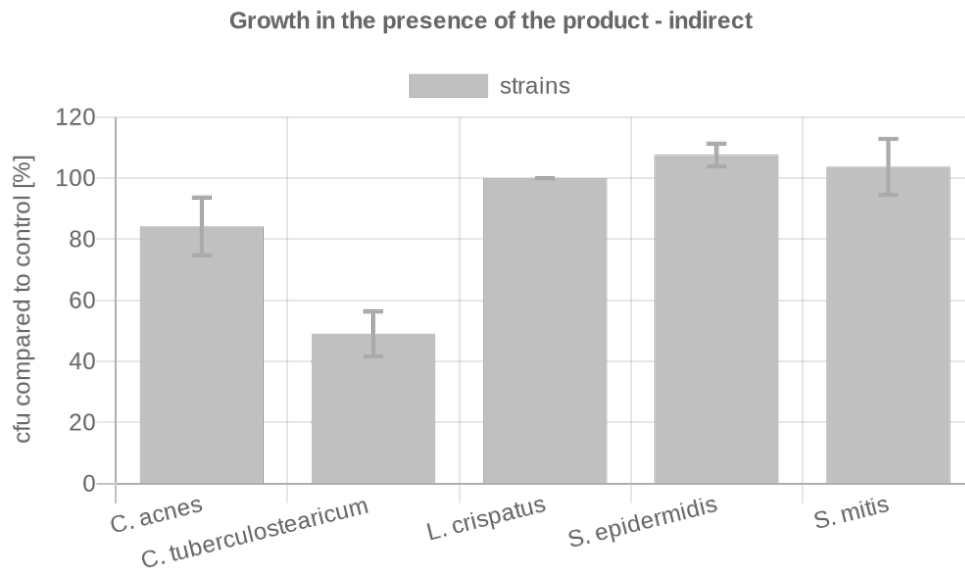


Key-Microbe	cfu/ml		Rating
<b>C. acnes</b>	Control	275.3	2
	Product	222.3	
<b>C. tuberculostearicum</b>	Control	1829.3	1
	Product	1816.7	
<b>L. crispatus</b>	Control	2000	1
	Product	2000	
<b>S. epidermidis</b>	Control	606	2
	Product	460	
<b>S. mitis</b>	Control	1232	2
	Product	1085.3	
<b>Overall rating:</b>			<b>1.6</b>

## Results – INFANT -

### 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.



Key-Microbe	cfu/ml		Rating
<b>C. acnes</b>	Control	309.3	2
	Product	260.3	
<b>C. tuberculoostearicum</b>	Control	1705	3
	Product	834.7	
<b>L. crispatus</b>	Control	2000	1
	Product	2000	
<b>S. epidermidis</b>	Control	548	1
	Product	589.7	
<b>S. mitis</b>	Control	1121.3	1
	Product	1162.7	
<b>Overall rating:</b>			<b>1.6</b>

## 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	3.0
Diversity of the corresponding skin microbiome (x2)	2.2
Skin-product contact direct (x2)	1.6
Skin-product contact indirect	1.6
<b>Overall grade</b>	<b>2.0</b>

**With an overall grade of 2.0 the seal „Microbiome-friendly“ is awarded according to MyMicrobiome Standard 20.10 Baby.**

Place, Date: Balzers, 29 April 2024

Responsible person: Dr. Kristin Neumann

Signature:

