



TEST REPORT Mikro Vision Health Care Mop

Test item: Bacteria pick-up rate (microorganisms)

ISO standard: 6330:2021

Report no.: DL-20230713-6 Test date: 05.06.2023

Issue date: 13.07.2023

Mikro Vision Health Care Mop



FA-29-33-HC FA-43-47-HC FA-62-66-HC

For test result please see next page





TEST RESULT Mikro Vision Health Care Mop

Pick-up rate (%)	Before washing: 99.9% After washing (300 times): 99.7%
Test bacteria	Staphylococcus aureus ATCC 6538 (microorganisms). Exists in e.g. kitchens, on kitchen utensils, in foodstuffs and dairy products. Causes: vomit, food poisoning and diarrhea.
Art. no.	FA-29-33-HC, FA-43-47-HC, FA-62-66-HC

Before wipe:



After wipe:



Calculation of the cloth's capacity to pick up bacteria and microorganisms:

Pick-up rate = $[(M_b - M_c) / M_b] \times 100$

M_b = Average of the number of bacteria on the test surface before pick-up. (The amount of bacteria which was spread on the surface)

M_c = Average of the number of bacteria on the test surface after pick-up. (The amount of bacteria on the surface after the wipe)





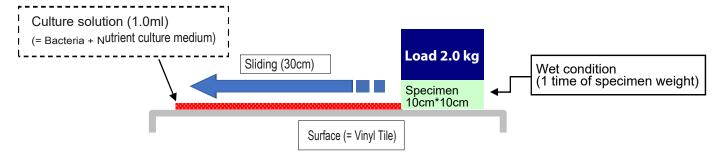
TEST METHOD Mikro Vision Health Care Mop



Test conditions:

Amount of water	1 time of specimen weight
Load weight	2 kg
Surface	Vinyl tile (wax coated)
Sliding range	30 cm
Washing condition	Industry washing machine, 90 °C Alkali detergent Washing times: 300 times

Illustration of the test method:



CONCLUSION

Mikro Vision Health Care Mop has a documented pickup of microorganisms of min. 99.7%.

The test result is based on test with bacteria within the group of microorganisms, where viruses also are included as a part of this group because of their sizes.

When microfiber product's ability to pick up microorganisms is tested, the size of the test object is pivotal. Thus, it is not important whether the microorganism is a bacterium or a virus. Microfiber does not distinguish between the types of microorganisms when they pick them up. Microfiber's ability to pick up microorganisms varies from product to product.

The tests are always conducted with bacteria within the art of microorganisms because of two reasons:

- 1) Bacteria constitute the most extensive health risk because they multiply and evolve with time. Viruses disappear after a certain amount of hours.
- 2) Bacteria are more safe to use in tests and they are more accessible as test objects.





TEST REPORT Mikro Vision Health Care Mop

Test item: Removal of dust and dirt

Report no.: DL-20230714-7

Test date: 11.07.2023 lssue date: 14.07.2023

Mikro Vision Health Care Mop



FA-29-33-HC FA-43-47-HC FA-62-66-HC

For test result please see next page





TEST RESULT Mikro Vision Health Care Mop

Test surface	Wooden floor			
Art. no.	FA-29-33-HC		FA-29-33-HC	
	FA-43-47-HC		FA-43-47-HC	
	FA-62-66-HC		FA-62-66-HC	
	Before washing		After washing (300 times)	
Condition	Dry	Damp	Dry	Damp
Turbidity before clean (Md)	1.93 NTU	0.90NTU	2.02 NTU	0.75 NTU
Turbidity after clean (Mc)	47.71 NTU	50.08 NTU	28.1 NTU	25.97 NTU
Dust and dirt removal rate (%)	96.0%	98.2%	92.8%	97.1%

NTU = Nephelometric Turbidity Unit

The unit used to describe turbidity, in other words the haziness of the water. Nephelometric refers to the way the instrument, a nephelometer, measures how much light is scattered by suspended particles in the water.

The greater the scattering, the higher the turbidity.

Therefore, low NTU values indicate high water clarity, while high NTU values indicate low water clarity. D





TEST METHOD Mikro Vision Health Care Mop



Test conditions:

Test surface	Wooden floor
Sliding range	10x30 cm
Washing	Household washing machine, 90 °C Weak alkali detergent 0.2% Washing times: 300 times

Calculation of the removal rate:

Removal rate (%) =

Turbidity of before clean (Md) - Turbidity of after clean (Mc)

Turbidity before clean (Md)

x 100





TEST REPORT Mikro Vision Mop Health Care

Test item: Autoclave
Report no.: DL-191030-2
Test date: 30.10.2019
Issue date: 30.10.2019

Mikro Vision Health Care Mop Industry Mop 2.0



FA-29-33-HC FA-43-47-HC FA-62-66-HC

For test results please see next page





TEST REPORT Mikro Vision Health Care Mop Industry Mop 2.0



Test conditions:

Procedure	1 x wash + 1 x autoclave (= 1 cycle) Test result after 3 cycles
Wash	Industrial washing machine, 11 kg: 60 °C Load: 60% (6.6 kg) Detergent: pH 11 No dry tumbling
Autoclave	Is used right after wash 121°C 30 min.

Autoclave is a specially developed machine for sterilisation of products.

The machine is filled with steam under pressure. The product is being exposed to saturated steam with a temperature of 121 °C in 30 minutes.





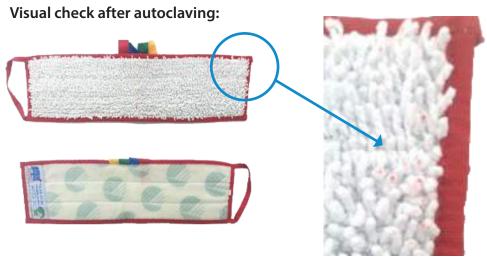


TEST RESULT

Mikro Vision Health Care Industry Mop 2.0

Test result 1 (-) decrease (+) increase	Width	Length	
Shrinkage	+0.8%	-6.6%	
Art. no.	FA-29-33-HC FA-43-47-HC FA-62-66-HC		





- No damage on the chenille scrub pile
- No change in the adhesive power of the velcro
- Color bleeding on the pile may happen when autoclaving with products in other colors
- Yellow color phenomenon can occur on the velcro
- Please note: use of autoclave reduces the washing guarantee with ca 50% (Nordic Swan eco-labelled products tolerate +500 washes when washed correctly)