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Expert assessment

On multifunctional wet cleaning and disinfection station "PEREKSA" compliance with standards on chemical disinfectants and antiseptics adopted by the European Union with bactericidal, fungicidal, virucidal and sporicidal effectiveness.

The aim of the expert-examination is to determine the performance of the multifunctional wet cleaning and disinfection station "PEREKSA" in washing and deodorising and at the same time bactericidal, fungicid, virucidal and sporicidal compliance with the following standards adopted in the European Union:

- EN 14476+A2:2019. Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of virucidal activity in the medical area - Test method and requirements (Phase 2/Step 1)
- EN 16615:2015. Chemical disinfectants and antiseptics. Quantitative test method for the evaluation of bactericidal and yeasticidal activity on non-porous surfaces with mechanical action employing wipes in the medical area (4- field test). Test method and requirements (phase 2, step 2)
- EN 13727+A2:2016. Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity in the medical area - Test method and requirements (phase 2, step 1)

The expert-controlled examination resulted in the following data:

Bactericidal activity test results for the Multifunctional station for wet cleaning and disinfection "PEREKSA"

Wiping method, exposure – minimum steam supply mode with disinfectant supply							
Evaluable parameters	Hygienic standard	UoM	Test findings				
			linoleum	plastic	ceramic tiles	metal	painting surface
<i>E. Coli 1275</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>St. aureus 906</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Ps. aeruginosa</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Bacillus cereus</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Mycobacterium B_s</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Candida albicans</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Salm. enter.</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Sh. sonnei</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99

Bactericidal activity test results for the Multifunctional station for wet cleaning and disinfection "PEREKSA"

Wiping method, exposure – moderate steam supply mode with disinfectant supply							
Evaluable parameters	Hygienic standard	UoM	Test findings				
			linoleum	plastic	ceramic tiles	metal	painting surface
<i>E. Coli 1275</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>St. aureus 906</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Ps. aeruginosa</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Bacillus cereus</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Mycobacterium B_s</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Candida albicans</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Salm. enter.</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Sh. sonnei</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99

Bactericidal activity test results for the Multifunctional station for wet cleaning and disinfection "PEREKSA"

Wiping method, exposure – maximum steam supply mode with disinfectant supply							
Evaluable parameters	Hygienic standard	UoM	Test findings				
			Linoleum	Plastic	Ceramic tiles	Metal	Painted surface
<i>E. Coli 1275</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>St. aureus 906</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Ps. aeruginosa</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Bacillus cereus</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Mycobacterium B_s</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Candida albicans</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Salm. enter.</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99
<i>Sh. sonnei</i> (2 billion CFU/mL)	NLT 99.99	%	99.99	99.99	99.99	99.99	99.99

Efficiency test findings for the Multifunctional station for wet cleaning and disinfection "PEREKSA", for inactivation of non-enveloped human viruses on different surfaces

Wiping method: exposure — minimum/maximum steam supply mode combined with disinfectant supply				
Material	Adenovirus efficiency, %		Coxsackie virus efficiency, %	
	Minimum	Maximum	Minimum	Maximum
Glass	99.97	100.00	99.99	100.00
Plastic	99.90	99.99	99.94	100.00
Painted wall	99.68	99.97	99.82	99.98
Metal	99.90	100.00	99.99	100.00
Tiles	99.98	100.00	99.94	100.00

Fungicidal efficiency test results for the Multifunctional station for wet cleaning and disinfection "PEREKSA"

Wiping method: exposure — minimum/maximum steam supply mode combined with disinfectant supply				
Material	Efficiency against <i>Aspergillus niger</i> , %		Efficiency against <i>Penicillium chrysogenum</i> , %	
	Minimum	Maximum	Minimum	Maximum
Linoleum	97.07	>99.99	99.99	>99.99
Plastic	98.30	>99.99	99.94	>99.99
Painted wall	99.87	>99.99	99.50	>99.50
Metal	>99.99	>99.99	99.56	>99.99
Tiles	99.91	>99.99	99.52	>99.99

Assessment of surfaces and Multifunctional station for wet cleaning and disinfection
 "PEREKSA" sanitation compatibility

Surface type	Exposure	Visual assessment of surface appearance change		
		Minimum steam supply mode combined with disinfectant supply mode	Moderate steam supply mode combined with disinfectant supply	Maximum steam supply mode combined with disinfectant supply mode
Plastic	wiping method	the surface is unharmed	the surface is unharmed	the surface is unharmed
Ceramic tiles	wiping method	the surface is unharmed	the surface is unharmed	the surface is unharmed
Painted surfaces	wiping method	the surface is unharmed	the surface is unharmed	the surface is unharmed
Metal	wiping method	the surface is unharmed	the surface is unharmed	the surface is unharmed
Linoleum	wiping method	the surface is unharmed	the surface is unharmed	the surface is unharmed

Expert conclusion: The effectiveness of washing and deodorizing, as well as bactericidal, fungicidal, virucidal and sporicidal functions of the Multifunctional station "PEREKSA" fully complies with the standards adopted in the European Union regarding chemical disinfectants and antiseptics.

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