

### BIOLOGICAL/MICROBIOLOGICAL ACTIVITY TRIAL REPORT

Report registration number	M20042002
Full name of the product	<b>Medisanitize Universal Wipes</b>
Holder of the product/license	Medisanitize
Active ingredients	BENZYL-C8-18-ALKYLDIMETHYL CHLORIDES, DIDECYCLDIMETHYL AMMONIUM CHLORIDE, POLYHEXAMETHYLENE BIGUANIDE HYDROCHLORIDE
Form of formulation	Liquid
Date of Sample	20.04.2020
Address	Buckshaw Link, Ordnance Rd, Buckshaw Village, Chorley PR7 7EL
Production and expiry date of the sample	22.03.2020-22.03.2022
Samplecharge/serialno	L/062020
Starting and ending dates of the trial	21.04.2020 – 24.04.2020
Target species	-
Target species life period	-
Area of application	HAND and skin
Method of the trial	<b>TS EN 1276 , TS EN 1650</b>
Environmental conditions for the trial	Bacteria and Fungus 20°C
Contact time	Bacteria 1 min Fungus 15 min
Waiting time	-
Type of application	<b>ANTIBACTERIAL WIPES are used directly as handkerchiefs.</b>
Dose of application	% 100
Method of effect assessment	It is presented in the tables specified in the appendix.
Results of the trial	It is presented in the tables specified in the appendix.
Comment from the experimenter	It is presented in the tables specified in the appendix.

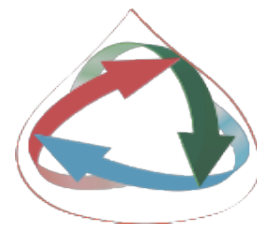
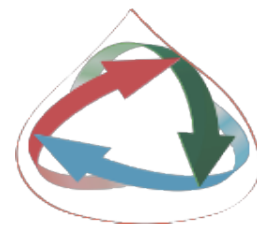


TABLE OF TEST RESULTS OF BACTERICIDAL ACTIVITIES

Product type	Medisanitize Universal Wipes			
Method used	TS EN 1276	Amount of Organism during the Analysis	4 x10 <sup>7</sup> cfu/ml	
Test Organism used	Pseudomonas aeruginos (ATCC 15442)	Amount of Organism during the Analysis (log)	7,8	
Neutralizer(s) used	Sodium thiosulphate ,5 g/l + polysorbate 80, 30g/l + lecithin , 3g/l +saponin , 30g/l + Lhistidine ,-1g/l			
Product Concentration(%)	Number of colonies at the end of the contact time	Number of colonies at the end of thecontact time (log)	(Amount of organism during the analysis) - ( Number at the end of the contact time) (log)	Contact time (min)
80	<140 cfu/ml	<2,15	>5,40	1 min ± 5 s
Evaluation: The product showed a desired 5 log decrease in the concentration and times performed and was evaluated as effective against Pseudomonas aeruginosa bacteria.				

Product Type	Medisanitize Universal Wipes			
Method used	TS EN 1276	Amount of Organism during the Analysis	3,2x10 <sup>7</sup> cfu/ml	
Test Organism used	Staphylococcus aureus ATCC 6538	Amount of Organism during the Analysis (log)	7,50	
Neutralizer(s) used	Sodium thiosulphate ,5 g/l + polysorbate 80, 30g/l + lecithin , 3g/l +saponin , 30g/l + L - histidine , 1g/l			
Prodcut Concentration (%)	Number of colonies at the end of the contact time	Number of colonies at the end of the contact time (log)	(Amount of organism during the analysis ) - ( Number at the end of the contacttime) (log)	Contact time (min)
80	<140 cfu/ml	<2,15	>5,35	1 min ± 5 s
Evaluation: The product showed a desired 5 log decrease in the concentration and times performed and was evaluated as effective against Staphylococcus aureus bacteria.				

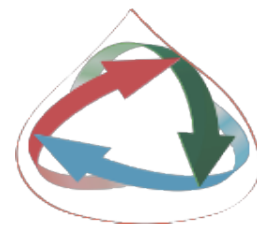
Product Type	<b>Medisanitize Antibacterial Wipes</b>			
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Method used	TS EN 1276	Amount of Organism during the Analysis	1,5x10 <sup>7</sup> cfu/ml	
Test Organism used	Escherichia coli <ATCC 10536>	Amount of Organism during the Analysis (log)	7,20	
Neutralizer(s)used	Sodium thiosulphate ,5 g/l + polysorbate 80, 30g/l + lecithin , 3g/l +saponin , 30g/l +L histidine , 1g/l			
Prodcut Concentration (%)	Number of colonies at the end of the contact time	Number of colonies at the end of the contact time (log)	(Amount oforganism during the analysis )- ( Number at the end of the contact time) (log)	Contact time (min)
80	<140 cfu/ml	<2,15	>5,05	1 min ± 5 s
Evaluation: The product showed a desired 5 log decrease in the concentration and times performed and was evaluated as effective against Escherichia coli bacteria.				

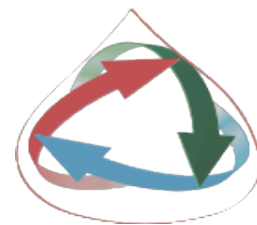
Product Type	Medisanitize Universal Wipes			
Method used	TS EN 1276	Amount of Organism during the Analysis	2,5x10 <sup>7</sup> cfu/ml	
Test Organism used	Enterococcus hirae <ATCC 10541>	Amount of Organism during the Analysis (log)	7,26	
Neutralizer(s) used	Sodium thiosulphate ,5 g/l + polysorbate 80, 30g/l + lecithin , 3g/l +saponin , 30g/l + L histidine , -1g/l			
Prodcut Concentration (%)	Number of colonies at the end of thecontact time	Number of colonies at the end of the contact time (log)	(Amount of organism during the analysis )- ( Number at the end of the contact time) (log)	Contact time (min)
80	<140 cfu/ml	<2,15	>5,40	1 min ± 5 s
Evaluation: The product showed a desired 5 log decrease in the concentration and times performed and was evaluated as effective against Enterococcus hirae bacteria.				

Product Type	<b>Medisanitize Universal Wipes</b>
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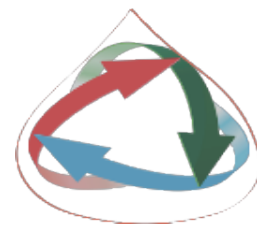
Method used	TS EN 1276	Amount of Organism during the Analysis	2,5x10 <sup>7</sup> cfu/ml	
Test Organism used	Bacillus subtilis <ATCC 6633>	Amount of Organism during the Analysis (log)	7,30	
Neutralizer(s) used	Sodium thiosulphate ,5 g/l + polysorbate 80, 30g/l + lecithin , 3g/l +saponin , 30g/l + Lhistidine , -1g/l			
Prodcut Concentration (%)	Number of colonies at the end of the contact time	Number of colonies at the end of the contact time (log)	(Amount of organism during the analysis )- ( Number at the end of the contacttime) (log)	Contact time (min)
80	<140 cfu/ml	<2,15	>5,05	1 min ± 5 s
Evaluation: The product showed a desired 5 log decrease in the concentration and times performed and was evaluated as effective against Bacillus subtilis bacteria				

### TABLE OF TEST RESULTS OF FUNGICIDAL ACTIVITIES



Product Type	Medisanitize Universal Wipes			
Method used	TS EN 1650	Amount of Organism during the Analysis	1,5x10 <sup>7</sup> cfu/ml	
Test Organism used	Candida Albicans <ATCC 10231>	Amount of Organism during the Analysis (log)	6,25	
Neutralizer(s) used	Sodium thiosulphate ,5 g/l + polysorbate 80, 30g/l + lecithin , 3g/l +saponin , 30g/l + Lhistidine , -1g/l			
Prodcut Concentration (%)	Number of colonies at the end of the contact time	Number of colonies at the end of the contact time (log)	(Amount of organism during the analysis )- ( Number at the end of the contact time) (log)	Contact time (min)
80	<140 cfu/ml	<2,15	>4,05	1 min ± 5 s
Evaluation: The product showed a desired 4 log decrease in the concentration and times performed and was evaluated as effective against Candida Albicans bacteria				

Product Type	Medisanitize Antibacterial Wipes			
Method used	TS EN 1650	Amount of Organism during the Analysis	1,6x10 <sup>7</sup> cfu/ml	
Test Organism used	Aspergillus Brasiliensis <ATCC 16404>	Amount of Organism during the Analysis (log)	6,20	
Neutralizer(s) used	Sodium thiosulphate ,5 g/l + polysorbate 80, 30g/l + lecithin , 3g/l +saponin , 30g/l +-Lhistidine , 1g/l			
Prodcut Concentration (%)	Number of colonies at the end of the contact time	Number of colonies at the end of the contact time (log)	(Amount of organism during the analysis )- ( Number at the end of the contacttime) (log)	Contact time (min)
80	<140 cfu/ml	<2,15	>4,05	1 min ± 5 s
Evaluation: The product showed a desired 4 log decrease in the concentration and times performed and was evaluated as effective against Aspergillus Brasiliensis bacteria				



Results of the analysis are valid for the sample mentioned above. This report cannot be reproduced, published or used for advertising purposes without the permission of Al-BioServices. Reports without wet-ink signature are invalid. Any part of the report cannot be used alone or separately.

Abbreviations (1) LogarithmicTCID<sub>50</sub> value of the virus in ml  
(2) LogarithmicTCID<sub>50</sub> value of the virus treated with disinfectant in different time and environments  
(3) LogarithmicTCID<sub>50</sub> ratio between virus titer and disinfectant virus titer

END OF THE REPORT