



YEDITEPE UNIVERSITY

BIOCIDAL-RESEARCH AND DEVELOPMENT LABORATORY

**FRESH DETOX
ANTIBACTERIAL WET WIPES
MICROBIOLOGICAL ACTIVITY ANALYSIS REPORT**



REPUBLIC OF TURKEY
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BIOCIDAL-RESEARCH AND DEVELOPMENT LABORATORY

BIOCIDAL PRODUCT ANALYSIS REPORT



Test
TSE EN ISO/IEC 17025
AB-1324-T

AB-1324-T

200284-00

10.08.2020

Tested Product Name	FRESH DETOX ANTIBACTERIAL WET WIPES
Sample Record Number	2020-161/AG200161
Report Record Number /Revision Number	200284-00/AG06
Date	10.08.2020

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1. PRODUCT INFORMATION

Tested Product Name	FRESH DETOX ANTIBACTERIAL WET WİPES
Product Arrival Date	23.07.2020
Product Arrival	With cargo
Sample Accept Temperature	23 ° C
Sample Packing Material	Original sealed packaging
Sample Amount	10 Pieces x 72wipes
Purpose of Analysis	Special request
Sample Manufacturer Name And Adress	Aqua Kozmetik Dış. Tic. A.Ş. Cumhuriyet Mah. Yıldırım Çınar Sok. No:19/A/2 Büyükçekmece İstanbul
Active Substances of Product	-
Sample Charge/Serial No	2020-0000
Sample Sending Institution	Aqua Kozmetik Dış. Tic. A.Ş.
Sample Address	-
Production And Expiration Date Of Sample	17.06.2020-17.06.2023

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2. PRODUCT ANALYSIS RESULTS

2.1. Microbiological Activity Test Method/ Method Information

Microbiological Parameter	Microorganism Name	Technical	Number of Plates	Method Summary
*Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas	<i>Escherichia coli</i> ATCC 10536	Spreading Plaque	2(two)	It is the logarithmic calculation of the number of microorganisms remaining as a result of reducing the initial concentration of microorganism at the end of the contact time.
	<i>Staphylococcus aureus</i> ATCC 6538	Spreading Plaque	2(two)	It is the logarithmic calculation of the number of microorganisms remaining as a result of reducing the initial concentration of microorganism at the end of the contact time.
	<i>Pseudomonas aeruginosa</i> ATCC 15442	Spreading Plaque	2(two)	It is the logarithmic calculation of the number of microorganisms remaining as a result of reducing the initial concentration of microorganism at the end of the contact time.
	<i>Enterococcus hirae</i> ATCC 10541	Spreading Plaque	2(two)	It is the logarithmic calculation of the number of microorganisms remaining as a result of reducing the initial concentration of microorganism at the end of the contact time.
	<i>Listeria monocytogenes</i> ATCC 15313	Spreading Plaque	2(two)	It is the logarithmic calculation of the number of microorganisms remaining as a result of reducing the initial concentration of microorganism at the end of the contact time.
	<i>Salmonella typhimurium</i> ATCC 14028	Spreading Plaque	2(two)	It is the logarithmic calculation of the number of microorganisms remaining as a result of reducing the initial concentration of microorganism at the end of the contact time.
Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas	<i>Candida albicans</i> ATCC 10231	Spreading Plaque	2(two)	It is the logarithmic calculation of the number of microorganisms remaining as a result of reducing the initial concentration of microorganism at the end of the contact time.
	<i>Aspergillus brasiliensis</i> ATCC 16404	Spreading Plaque	2(two)	It is the logarithmic calculation of the number of microorganisms remaining as a result of reducing the initial concentration of microorganism at the end of the contact time.

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2.2. Microbiological Activity Test Method /Method Application Details

Microorganism Name	Method	Product Use Area	Test Concentration	Contact Time	Test Conditions	Interfering Substance	Neutralizer
<i>Escherichia coli</i> ATCC 10536	TS EN 1276	Public and Personnel Area	100 %	5 Minutes	20°C	0.3 g/L BSA	Egg Lecithin (3gr/L) + Tween 80 (30gr/L) + Saponin (3gr/L)
<i>Staphylococcus aureus</i> ATCC 6538	TS EN 1276	Public and Personnel Area	100 %	5 Minutes	20°C	0.3 g/L BSA	Egg Lecithin (3gr/L) + Tween 80 (30gr/L) + Saponin (3gr/L)
<i>Pseudomonas aeruginosa</i> ATCC 15442	TS EN 1276	Public and Personnel Area	100 %	5 Minutes	20°C	0.3 g/L BSA	Egg Lecithin (3gr/L) + Tween 80 (30gr/L) + Saponin (3gr/L)
<i>Enterococcus hirae</i> ATCC 10541	TS EN 1276	Public and Personnel Area	100 %	5 Minutes	20°C	0.3 g/L BSA	Egg Lecithin (3gr/L) + Tween 80 (30gr/L) + Saponin (3gr/L)
<i>Listeria monocytogenes</i> ATCC 15313	TS EN 1276	Public and Personnel Area	100 %	5 Minutes	20°C	0.3 g/L BSA	Egg Lecithin (3gr/L) + Tween 80 (30gr/L) + Saponin (3gr/L)
<i>Salmonella typhimurium</i> ATCC 14028	TS EN 1276	Public and Personnel Area	100 %	5 Minutes	20°C	0.3 g/L BSA	Egg Lecithin (3gr/L) + Tween 80 (30gr/L) + Saponin (3gr/L)
<i>Candida albicans</i> ATCC 10231	TS EN 1650	Public and Personnel Area	100 %	5 Minutes	20°C	0.3 g/L BSA	Egg Lecithin (3gr/L) + Tween 80 (30gr/L) + Saponin (3gr/L)
<i>Aspergillus brasiliensis</i> ATCC 16404	TS EN 1650	Public and Personnel Area	100 %	5 Minutes	20°C	0.3 g/L BSA	Egg Lecithin (3gr/L) + Tween 80 (30gr/L) + Saponin (3gr/L)

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2.3. Test Results and Evaluation

Microorganism Name	Method	Product Use Area	Antimicrobial Effect (% Reduction)	Antimicrobial Effect (Logarithmic Reduction)	Result Evaluation		Conclusion
					Source	Limit	
<i>Escherichia coli</i> ATCC 10536	TS EN 1276	Public and Personnel Area	% 99,999	>10 ⁵ ; >5,15	TS EN 1276	≥ 5 log	Pass
<i>Staphylococcus aureus</i> ATCC 6538	TS EN 1276	Public and Personnel Area	% 99,999	>10 ⁵ ; >5,32	TS EN 1276	≥ 5 log	Pass
<i>Pseudomonas aeruginosa</i> ATCC 15442	TS EN 1276	Public and Personnel Area	% 99,999	>10 ⁵ ; >5,15	TS EN 1276	≥ 5 log	Pass
<i>Enterococcus hirae</i> ATCC 10541	TS EN 1276	Public and Personnel Area	% 99,999	>10 ⁵ ; >5,15	TS EN 1276	≥ 5 log	Pass
<i>Listeria monocytogenes</i> ATCC 15313	TS EN 1276	Public and Personnel Area	% 99,999	>10 ⁵ ; >5,15	TS EN 1276	≥ 5 log	Pass
<i>Salmonella typhimurium</i> ATCC 14028	TS EN 1276	Public and Personnel Area	% 99,999	>10 ⁵ ; >5,15	TS EN 1276	≥ 5 log	Pass
<i>Candida albicans</i> ATCC 10231	TS EN 1650	Public and Personnel Area	% 99,99	>10 ⁴ ; >4,02	TS EN 1650	≥ 4 log	Pass
<i>Aspergillus brasiliensis</i> ATCC 16404	TS EN 1650	Public and Personnel Area	% 99,99	>10 ⁴ ; >4,15	TS EN 1650	≥ 4 log	Pass

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2.4. Test Results /Test Verification

Microorganism Name	Vc	N	Lg N	No	Lg No	NA	Lg NA	Control Suspension				A	B	C
								Nv	Nv0	Vc1	Vc2			
<i>Escherichia coli</i> ATCC 10536	<14	2×10 ⁸	8,30	2×10 ⁷	7,30	<140	<2,15	7×10 ²	7×10 ¹	70	70	6×10 ¹ 61-60	5,5×10 ¹ 58-52	5×10 ¹ 51-50
<i>Staphylococcus aureus</i> ATCC 6538	<14	3×10 ⁸	8,47	3×10 ⁷	7,47	<140	<2,15	5×10 ²	5×10 ¹	51	49	5×10 ¹ 52-50	4×10 ¹ 43-38	4×10 ¹ 42-37
<i>Pseudomonas aeruginosa</i> ATCC 15442	<14	2×10 ⁸	8,30	2×10 ⁷	7,30	<140	<2,15	6×10 ²	6×10 ¹	65	56	6×10 ¹ 63-57	5,5×10 ¹ 59-52	5×10 ¹ 51-48
<i>Enterococcus hirae</i> ATCC 10541	<14	2×10 ⁸	8,30	2×10 ⁷	7,30	<140	<2,15	7×10 ²	7×10 ¹	74	65	7×10 ¹ 72-67	6×10 ¹ 64-58	5×10 ¹ 50-48
<i>Listeria monocytogenes</i> ATCC 15313	<14	2×10 ⁸	8,30	2×10 ⁷	7,30	<140	<2,15	7×10 ²	7×10 ¹	70	68	7×10 ¹ 72-67	5×10 ¹ 56-44	5×10 ¹ 52-49
<i>Salmonella typhimurium</i> ATCC 14028	<14	2×10 ⁸	8,30	2×10 ⁷	7,30	<140	<2,15	8×10 ²	8×10 ¹	82	80	7×10 ¹ 72-67	6×10 ¹ 61-60	5×10 ¹ 53-50
<i>Candida albicans</i> ATCC 10231	<14	1,5×10 ⁷	7,17	1,5×10 ⁶	6,17	<140	<2,15	5×10 ²	5×10 ¹	52	48	5,5×10 ¹ 55-54	5×10 ¹ 51-50	4×10 ¹ 42-37
<i>Aspergillus brasiliensis</i> ATCC 16404	<14	2×10 ⁷	7,30	2×10 ⁶	6,30	<140	<2,15	6×10 ²	6×10 ¹	62	57	6×10 ¹ 62-58	5,5×10 ¹ 55-55	5×10 ¹ 51-48

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3. APPROVALS AND SIGNATURES

10.08.2020

Sadık KALAYCI
Biologist
Microbiology Laboratory Manager

20.08.2020

Serap DELİMEHMETOĞULLARI
Biologist
Sample Acceptance and Reporting Manager

Prof. Dr. Fikretin ŞAHİN
Chair of Biocidal Laboratory

20.08.2020

4. LEGAL INFORMATION

The entire or a part of this report can only be copied with the approval of laboratories of Yeditepe University, Biocidal-Research and Development Laboratory. In addition, this report cannot be used for other purposes (for advertising purposes) without the permission of laboratories of Yeditepe University, Biocidal-Research and Development Laboratory and the name of the university cannot be written on the product label. Upon detection of otherwise, Yeditepe University Rectorate reserves to the right to take any legal action.

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5. GENERAL INFORMATION

V_c: Number of viable microorganism

Lg N: Initial number of microorganism. (Logarithmically)

Lg N₀: Number of microorganism before contact time. (Logarithmically)

N: Initial number of microorganism

N₀: Number of microorganism before contact time.

N_A: Number of microorganism after reduction.

Lg N_A: Number of microorganism after reduction. (Logarithmically)

R: Logarithmic reduction (LgN₀-LgN_A)

N, 1.5×10^8 and 5×10^8 must be between. (Bacteria)

N, 1.5×10^7 and 5×10^7 must be between. (Candida and Fungus)

N, 1.5×10^9 ile 5×10^9 must be between. (Mycobacterium spp.)

N, 3×10^8 ile 8×10^8 must be between. (According to EN 14204 test methods Mycobacterium avium)

N_v, 3×10^2 ile 1.6×10^3 must be between.

N_{v0,3}, 3×10^1 ile 1.6×10^2 must be between. Number of viable microorganism 30-160 must be between.

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