



**REPUBLIC OF TURKEY
YEDITEPE UNIVERSITY
BIOCIDAL AND R&D LABORATORIES**

**ANTIVIRAL EFFECTIVENESS ANALYSIS RESULT REPORT FOR
MICROSAFE WET WIPES**



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ANALYSIS AND TEST RESULT REPORT

Sample Name	MICROSAFE WET WIPES
Sample Registration Number	2020-366/200
Report No-Rev. No / Report Code	202841-01
Reporting Date	02.11.2020

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ATT. 1: TEST RESULTS

ANTIMICROBIAL TEST RESULTS				
MICROORGANISM	BIOLOGICAL EFFICIENCY	APPLICATION DOSAGE	CONTACT TIME	% REDUCTION OF ANTIMICROBIAL EFFECT
<i>Escherichia coli</i> ATCC 10536	+	% 100	1 Min	% 99,999
<i>Staphylococcus aureus</i> ATCC 6538	+	% 100	1 Min	% 99,999
<i>Pseudomonas aeruginosa</i> ATCC 15442	+	% 100	1 Min	% 99,999
<i>Enterococcus hirae</i> ATCC 10541	+	% 100	1 Min	% 99,999
<i>Candida albicans</i> ATCC 10231	+	% 100	1 Min	% 99,99
<i>Aspergillus niger</i> ATCC 16404	+	% 100	15 Minutes	% 99,99



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MICROORGANISM	Vc	N No	Lg N Lg No	N _A Lg N _A	R lg R
<i>Escherichia coli</i> ATCC 10536	< 14	2×10 ⁸ 2×10 ⁷	8,30 7,30	< 140 < 2,15	>10 ⁵ > 5,15
<i>Staphylococcus aureus</i> ATCC 6538	< 14	5×10 ⁸ 5×10 ⁷	8,69 7,69	< 140 < 2,15	>10 ⁵ > 5,54
<i>Pseudomonas aeruginosa</i> ATCC 15442	< 14	3×10 ⁸ 3×10 ⁷	8,47 7,47	< 140 < 2,15	>10 ⁵ > 5,32
<i>Enterococcus hirae</i> ATCC 10541	40-34	5×10 ⁸ 5×10 ⁷	8,69 7,69	370 2,56	>10 ⁵ 5,13
<i>Candida albicans</i> ATCC 10231	< 14	1,5×10 ⁷ 1,5×10 ⁶	7,17 6,17	< 140 < 2,15	>10 ⁴ > 4,02
<i>Aspergillus niger</i> ATCC 16404	< 14	1,5×10 ⁷ 1,5×10 ⁶	7,17 6,17	< 140 < 2,15	>10 ⁴ > 4,02



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MICROORGANISM	VALIDATION	CONTROL OF EXPERIMENTAL CONDITIONS	CONTROL OF NEUTRALIZING TOXINS	CONTROL OF NEUTRALIZED DILUTION METHOD
	CONTROL			
	SUSPENSION			
	<i>N_v - N_{va}</i>	(A)	(B)	(C)
	<i>V_{c1} + V_{c2}</i>	<i>V_{c1} + V_{c2}</i>	<i>V_{c1} + V_{c2}</i>	<i>V_{c1} + V_{c2}</i>
<i>Escherichia coli</i> ATCC 10536	$6 \times 10^2 - 6 \times 10^1$	$6,5 \times 10^1$	5×10^1	$5,5 \times 10^1$
	63-60	65-65	50-50	55-50
<i>Staphylococcus aureus</i> ATCC 6538	$7 \times 10^2 - 7 \times 10^1$	6×10^1	$5,5 \times 10^1$	6×10^1
	71-71	61-58	58-51	60-61
<i>Pseudomonas aeruginosa</i> ATCC 15442	$6 \times 10^2 - 6 \times 10^1$	$5,5 \times 10^1$	6×10^1	5×10^1
	60-61	55-53	60-60	50-49
<i>Enterococcus hirae</i> ATCC 10541	$5 \times 10^2 - 5 \times 10^1$	$5,5 \times 10^1$	6×10^1	5×10^1
	51-47	55-53	60-59	51-50
<i>Candida albicans</i> ATCC 10231	$6 \times 10^2 - 6 \times 10^1$	5×10^1	7×10^1	$6,5 \times 10^1$
	62-60	53-49	71-71	66-60
<i>Aspergillus niger</i> ATCC 16404	$7 \times 10^2 - 7 \times 10^1$	$6,5 \times 10^1$	5×10^1	6×10^1
	76-65	65-65	51-51	61-59





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Vc: Microorganism live counts after reduction

Lg N: Number of bacteria in the beginning (Logarithmically)

Lg N₀: Number of bacteria before contact time (logarithmically)

N: Number of bacteria in the beginning

N₀: Number of bacteria before contact time

N_A: Number of remaining bacteria after reduction

Lg N_A: Number of remaining bacteria after reduction (Logarithmically)

R: Logarithmic reduction

---N, should be between $1,5 \times 10^8$ ile 5×10^8 . (for Bacterias)

---N, should be between $1,5 \times 10^7$ ile 5×10^7 . (for yeasts and fungi)

---N, should be between $1,5 \times 10^9$ ile 5×10^9 . (for *Mycobacterium* spp.)

---N, should be between 3×10^8 ile 8×10^8 . (according to EN 14204, for *Mycobacterium avium*)

---N_v, should be between 3×10^2 ile $1,6 \times 10^3$.

---N_{v0}, should be between 3×10^1 ile $1,6 \times 10^2$. (colony number should be between 30-160)

---Average of A should be 0,5 times greater than or equal to N_{v0}. The minimum number of average A should be half of average N_{v0}.

---Average of B should be 0,5 times greater than or equal to N_{v0}. The minimum number of average B should be half of average N_{v0}.

---Average of C should be 0,5 times greater than or equal to N_{v0}. The minimum number of average C should be half of average N_{v0}.