

**EKOTEKS LABORATUVAR ve GÖZETİM
HİZMETLERİ A.Ş.**

AB-0583-T
20002785- ing-Add
02-20

TEST RESULTS

Test Method: ISO 20743:2013

Microorganism	<i>Klebsiella pneumoniae</i> ATCC 4352(Gram(-))
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Sample	Number of Bacteria (CFU/sample)		Logarithmic Reduction		Growth value
	Contact time (0 h)	After incubation (24 h)	log (C0)	log (Ct)	
Untreated (Control) Sample					F=Ct-C0
	4.5x10 ⁴	7.4x10 ⁷	4.65	7.87	3.22

Sample	Number of Bacteria (CFU/sample)		Logarithmic Reduction		Growth value
	Contact time (0 h)	After incubation (24 h)	log (T0)	log (Tt)	
Treated (Test) Sample					G=Tt-T0
	7.2x10 ⁴	1.0x10 ³	4.86	3.0	-1.86

Antibacterial Activity Value	A=F-G	A=5.07
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Result	Strong efficacy (99.99%)
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Concentration of inoculum (CFU/ml) and inoculum volume	3x10 ⁵ / 0.2 ml
Test method	Absorption method
Measuring method	Plate Count Method
Type of sample material	Fabric
Washing method	-
Amount of sample	0.4 g
Incubation conditions	37 ± 2 °C, 18 - 24 h
Sterilization method	Autoclave (121°C/15minute)

Note: Efficacy of antibacterial property
2≤A<3 (Significant)
A≥3 (Strong)

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TEST RESULTS

Test Method: ISO 20743:2013

Microorganism	<i>Staphylococcus aureus</i> (ATCC 6538 Gram(+))
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Sample	Number of Bacteria (CFU/sample)		Logarithmic Reduction		Growth value
	Contact time (0 h)	After incubation (24 h)	log (C ₀)	log (C _t)	
Untreated (Control) Sample					F=C_t-C₀
	3.6x10 ⁴	2.6x10 ⁷	4.55	7.41	2.86

Sample	Number of Bacteria (CFU/sample)		Logarithmic Reduction		Growth value
	Contact time (0 h)	After incubation (24 h)	log (T ₀)	log (T _t)	
Treated (Test) Sample					G=T_t-T₀
	2.7x10 ⁴	9.0x10 ³	4.43	3.98	-0.48

Antibacterial Activity Value	A=F-G	A=3.33
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Result	Strong efficacy (99.9%)
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Concentration of inoculum (CFU/ml) and inoculum volume	2.12x10 ⁵ / 0.2 ml
Test method	Absorption method
Measuring method	Plate Count Method
Type of sample material	Fabric
Washing method	-
Amount of sample	0.4 g
Incubation conditions	37 ± 2 °C, 18 - 24 h
Sterilization method	Autoclave (121°C/15minute)

Note: Efficacy of antibacterial property

2 ≤ A < 3 (Significant)

A ≥ 3 (Strong)

A: Antibacterial activity

C₀: logarithm of the numbers of bacteria, obtained from control specimens immediately after inoculation

C_t: logarithm of the numbers of bacteria, obtained from control specimens after an 18 h to 24 h incubation

T_t: logarithm of the numbers of bacteria, obtained from antibacterial testing specimens after an 18 h to 24 h incubation

T₀: logarithm of the numbers of bacteria, obtained from antibacterial testing specimens immediately after inoculation