

This report shall not be reproduced other than in full except with the permission of the laboratory. *Testing reports without signature and seal are not valid.*

EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A. Ş.

AB-0583-T	
20012983	
04-20	

-	
-	

No requirements were given by the customer

REMARK: Original samples are kept for 3 months and all technical records are kept for 5 years unless otherwise specified. If requested, measurement uncertainty will be reported. But unless otherwise specified, measurement uncertainty is not considered while stating compliance with specification or limit values The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95 %. Tests marked (*) in this report are not included in the accreditation schedule.



This report shall not be reproduced other than in full except with the permission of the laboratory. *Testing reports without signature and seal are not valid.*

EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A. Ş.

AB-0583-T
20012983
04-20

TEST RESULTS

Test Method :**ASTM E2149:2013a** Standard Test Method for Determining the Antimicrobial Activity of Antimicrobial Agents Under Dynamic Contact Conditions

RESULTS		
Untreated (Control) Sample	Treated (Test) Sample	
after specified contact time*	after specified contact time*	
8.8x10 ⁵ cfu/ml	< 30 cfu/ml	
5.94 log	-	

*The amount of growing bacteria on fabric cfu: colony forming units

Antimicrobial Activity	RESULT	Evaluation
Reduction, %	% 99.99	Effective

Mikroorganism	Staphylococcus aureus (ATCC 6538 (Gram(+))
Bacterial concentration (cfu/ ml)	2.33 x10 ⁵
Inoculum volume	50 ml
Size of sample	1g
Number of washing	-
Washing method	-
Incubation time, temperature	24 hours, $35^{\circ}C \pm 2^{\circ}C$
Contact time	(x) 24 hours (as per client's request)

R %= Reduction is calculated by the following formula;

%R=((C-A)/C)x100

A = CFU per millilitre for the flask containing the treated substrate after the specified contact time.

C = CFU per millilitre for the flask containing the untreated substrate after the specified contact time.

EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A. Ş.

AB-0583-T
20012983
04-20

TEST RESULTS

Test Method :**ASTM E2149:2013a** Standard Test Method for Determining the Antimicrobial Activity of Antimicrobial Agents Under Dynamic Contact Conditions

RESULTS		
Untreated (Control) Sample	Treated (Test) Sample	
after specified contact time*	after specified contact time*	
2.22x10 ⁶ cfu/ml	3x10 ⁴ cfu/ml	
6.35 log	4.48 log	

*The amount of growing bacteria on fabric cfu: colony forming units

Antimicrobial Activity	RESULT	Evaluation
Reduction, %	% 98.65	Effective

Mikroorganism	Klebsiella pneumonia (ATCC 4352 (Gram (-))
Bacterial concentration (cfu/ ml)	2.51 x10 ⁵
Inoculum volume	50 ml
Size of sample	1g
Number of washing	-
Washing method	-
Incubation time, temperature	24 hours, $35^{\circ}C \pm 2^{\circ}C$
Contact time	(x) 24 hours (as per client's request)

R %= Reduction is calculated by the following formula;

%R=((B-A)/B)x100

A = CFU per millilitre for the flask containing the treated substrate after the specified contact time.

B= CFU per millilitre for the 'inoculum only' flask after the specified contact time.