

**EKOTEKS LABORATUVAR ve GÖZETİM
HİZMETLERİ LTD. ŞTİ**

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TEST RESULTS

ANTIBACTERIAL ACTIVITY : ISO 20743:2007

Microorganism	<i>Staphylococcus aureus</i> ATCC 6538 (Gram(+))
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Sample	Bacteria growth (cfu / ml)		Logarithmic Reduction (cfu / ml)		Bacteria growth F: $\lg C_t - \lg C_o$
	Contact Time (0 h)	After Incubation (24s, 35°C)	$\lg (C_o)$	$\lg (C_t)$	
Untreated sample	1.2×10^4	7×10^6	4.07	6.84	2.77

Sample	Bacteria growth (cfu / ml)		Logarithmic Reduction (cfu / ml)		Bacteria growth G: $\lg T_t - \lg T_o$
	Contact Time (0 h)	After Incubation (24s, 35°C)	$\lg (T_o)$	$\lg (T_t)$	
Treated Sample	1.1×10^4	1.3×10^4	4.04	4.11	0.07

% Reduction	Result	Requirement
Antibacterial Activity Value; (A=F-G)	A=2.7	-
% R	$2 \leq A < 3$	-

Measuring method of number of living bacteria	Plate Count method
The number of bacteria in the test inoculum (kob/ml)	2.8×10^5
Volume of inoculated bacteria	0.2 ml
Size of sample	0.4 g
Incubation conditions	18 h, $37 \pm 1^\circ\text{C}$, Min % 90 RH

R: Is the antibacterial activity.

C₀: Mean logarithmic value of untreated samples immediately after inoculation. (0 hours contact time)

C_t: Mean logarithmic value of untreated sample at the end of 24 hours.

T_t: Mean logarithmic value of the treated sample processed at the end of 24 hours

T₀: Mean logarithmic value of the treated sample processed at the end of 0 hour.