

Number : TWNC01290052

Test Conducted :

Test For Antibacterial Activity On Plastics and Other Non-Porous Surfaces

As per ISO 22196:2011

Sterilization Of Sample Before Test : No Sterilization

Tested Specimen : Grey side of submitted samples

Result :

<u>Name of Test Bacteria</u> <u>(Strain Number)</u>	<u><i>Staphylococcus aureus</i></u> <u>(ATCC 6538)</u>	<u><i>Escherichia coli</i></u> <u>(ATCC 8739)</u>
Concentration of inoculum	7.2 X 10 ⁵ CFU/mL	3.7 X 10 ⁵ CFU/mL
Average of the number of viable bacteria immediately after inoculation on the control sample (U ₀)	6.8 X 10 ³ CFU/cm ² (Log : 3.83)	1.8 X 10 ⁴ CFU/cm ² (Log : 4.26)
Average of the number of viable bacteria on the control sample after 24 hours (U _t)	1.8 X 10 ⁵ CFU/cm ² (Log : 5.24)	3.7 X 10 ⁵ CFU/cm ² (Log : 5.57)
Average of the number of viable bacteria on the antimicrobial test piece after 24 hours (A _t)	32 CFU/cm ² (Log : 1.50)	<0.63 CFU/cm ² (Log : <-0.2)
Value of antimicrobial activity (R)	3.98	> 5.77
Value of antimicrobial activity (R)(%)	99.99	> 99.99

$$\begin{aligned} \text{Calculation : } R &= (U_t - U_0) - (A_t - U_0) = U_t - A_t \\ &= (U_t - A_t) / U_t \times 100\% \end{aligned}$$

Remarks : CFU = Colony forming unit

