

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

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TEST RESULT

Test Method: BS EN 22610: 2006 (Surgical drapes, garments and fresh air clothes used as medical devices for patients, hospital staff and equipment - Test method for determination of resistance to wet bacterial permeability)

A test sample is placed on the agar plate on a rotating disc. Bacteria carrier material and coating film are placed on the test sample and all parts are fixed on the disk. A finger is placed on the test sample to apply a certain force ($3N \pm 0.02$). The finger moves on the test sample over the entire surface of the agar within 15 minutes. 5 studies are carried out for 15 minutes. 6. The study is repeated by inverting the sample.

Sample amount:	5 pieces 25x25cm2
Carrier Material:	30 µm thin, 25x25cm2 Polyurethane Film
Coating Material:	25x25cm2 HDPE Film
Microorganism:	Staphylococcus aureus ATCC 29213
Bacterial Concentration (kob / ml):	5×10^3 kob / ml
Incubation Conditions:	(36 ± 1) ° C 48 hours

Critical area

RESULTS

Number of Populating Bacteria (cfu)		Penetration Rate	
X ₁	0	R _{CUM1}	0
X ₂	0	R _{CUM2}	0
X ₃	0	R _{CUM3}	0
X ₄	0	R _{CUM4}	0
X ₅	0	R _{CUM5}	0
Z	607		
T			607

X₁ X₅: Number of colonies growing in 5 parallel petri in the same sample
Z: number of colonies growing in the sixth petri dish

T: $X_1 + X_2 + X_3 + X_4 + X_5 + Z$

$$R_{CUM1} = X_1/T$$

$$R_{CUM2} = (X_2 + X_1)/T$$

$$R_{CUM3} = (X_3 + X_2 + X_1)/T$$

$$R_{CUM4} = (X_4 + X_3 + X_2 + X_1)/T$$

$$R_{CUM5} = (X_5 + X_4 + X_3 + X_2 + X_1)/T$$

BARRIER INDEX (I_B)

	Result	Expected value
I _B	6	≥2,8

$$I_B = 6 - (CUM1 + CUM2 + CUM3 + CUM4 + CUM5)$$

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