

BIOTECA Co., Ltd.

813 Kyung Hee Business Incubator # 1, Seochun-dong, Giheung-gu, Yongin-si,
Gyeonggi-do, 446-701, Korea

TEL : (031) 202 - 1619 FAX : (031) 202 - 1620

<http://www.bioteca.co.kr>

TEST REPORT

CLIENT : UV COAT CO., LTD.

ADDRESS : 131-3, Kamegaya, Tokorozawa-city, Saitama
359-0014, Japan.

SAMPLE : Ag mat coat (Non-woven fabric)

REPORT NO. : TR-1111-045(E)

RECEIPT DATE : NOV.21.2011

COMPLETION DATE : NOV.23.2011

PAGE : 1 OF TOTAL

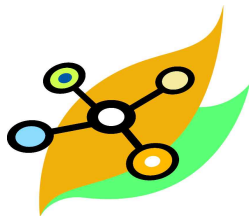
(1) TEST RESULTS : ANTIBACTERIAL ACTIVITY TEST (APPLY TO JIS L 1902)

CONTENT \ TEST BACTERIA	STRAIN 1 : <i>Staphylococcus aureus</i> ATCC 6538P
INOCULUM CONCENTRATION (CFU/ml)	1.6×10^5
GROWTH VALUE (F)	1.6
M _a	1.6×10^5 (5.2)
M _b	6.9×10^6 (6.8)
M _c	< 10 (1.0)
DECREASED VALUE (S) - PERCENT REDUCTION OF BACTERIA (%)	(5.8) 99.9

CONTENT \ TEST BACTERIA	STRAIN 2 : <i>Klebsiella pneumoniae</i> ATCC 4352
INOCULUM CONCENTRATION (CFU/ml)	1.4×10^5
GROWTH VALUE (F)	1.7
M _a	1.4×10^5 (5.1)
M _b	7.6×10^6 (6.9)
M _c	< 10 (1.0)
DECREASED VALUE (S) - PERCENT REDUCTION OF BACTERIA (%)	(5.9) 99.9

REMARK) · < = LESS THAN · CFU = Colony Forming Unit

The test result of this test report only limited in the sample and sample name presented by the customer and do not represent the all products of the customer. This test report shall be used only within the purpose of its defined usage and also shall not be used for public relations, advertisement and lawsuit without the BIOTECA's lawful conference.



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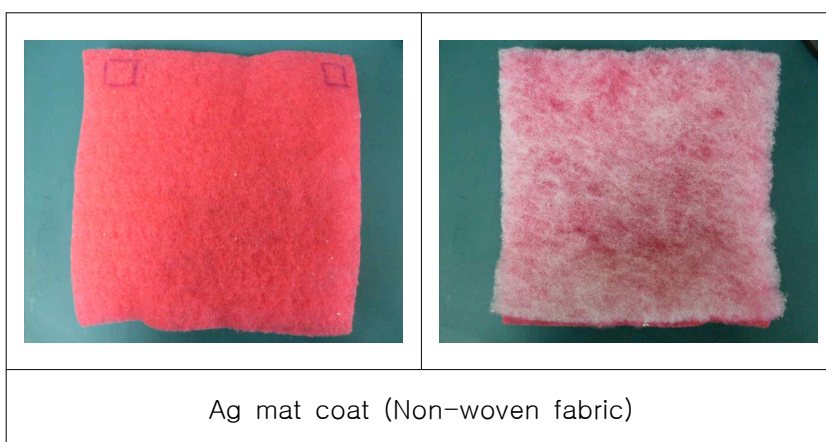
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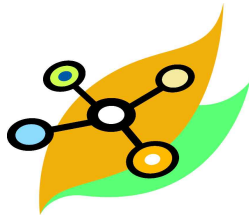
(2) TEST METHOD

TEST BACTERIA : STRAIN 1 - <i>Staphylococcus aureus</i> ATCC 6538P STRAIN 2 - <i>Klebsiella pneumoniae</i> ATCC 4352
SAMPLE WEIGHT : 0.4 g
STANDARD FABRIC : COTTON
BACTERIAL DECREASED VALUE (S), PERCENT REDUCTION OF BACTERIA (%) : $\log(M_b - M_c)$, $[(M_b - M_c) / M_b] \times 100$
GROWTH VALUE (F) : $\log(M_b / M_a)$ (MORE THAN 1.5)
M _a : START
M _b : AVERAGE OF COMMON LOGARITHM OF NUMBER OF BACTERIA OF THREE TEST PIECES AFTER 18 HOURS INCUBATION ON STANDARD CLOTH.
M _c : AVERAGE OF COMMON LOGARITHM OF NUMBER OF BACTERIA OF THREE TEST PIECES AFTER 18 HOURS INCUBATION ON ANTIBACTERIAL TREATED SAMPLE



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S. aureus - Blank



S. aureus - Sample



K. pneumoniae - Blank



K. pneumoniae - Sample

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