

# BIOTECA Co., Ltd.

26, Gwollisa-ro 29beon-gil, Osan-si, Gyeonggi-do, 18121, Korea

TEL : (031) 373 - 1628 FAX : (031) 372 - 1629

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

## TEST REPORT

CLIENT : DAZIAN LLC

REPORT NO. : TR-2006-058(E)

RECEIPT DATE : JUN.15.2020

SAMPLE : #4002 (NORMAL CYCLE, WASH TEMP  $40 \pm 3$  °C, COMPLETION DATE : JUN.25.2020

LINE DRY, 20 TH WASH)

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### (1) TEST RESULTS : ANTIBACTERIAL FINISHES ON TEXTILE MATERIALS (APPLY TO AATCC 100)

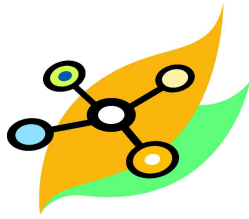
CONTENT \ TEST BACTERIA	STAIN 1 : <i>Staphylococcus aureus</i> ATCC 6538
INOCULUM CONCENTRATION (CFU/ml)	$1.6 \times 10^5$
M <sub>a</sub>	$1.6 \times 10^5$
M <sub>b</sub>	$6.8 \times 10^7$
M <sub>c</sub>	< 10
PERCENT REDUCTION OF BACTERIA (%) (KS STANDARD)	99.9 (99.9)

CONTENT \ TEST BACTERIA	STAIN 2 : <i>Klebsiella pneumoniae</i> ATCC 4352
INOCULUM CONCENTRATION (CFU/ml)	$1.3 \times 10^5$
M <sub>a</sub>	$1.3 \times 10^5$
M <sub>b</sub>	$7.5 \times 10^7$
M <sub>c</sub>	< 10
PERCENT REDUCTION OF BACTERIA (%) (KS STANDARD)	99.9 (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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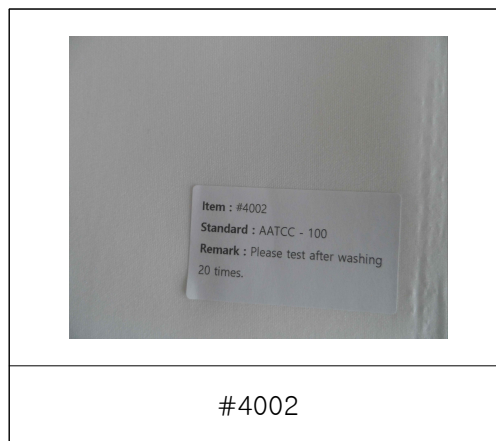
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## (2) TEST METHOD

TEST BACTERIA : STRAIN 1 - <i>Staphylococcus aureus</i> ATCC 6538 STRAIN 2 - <i>Klebsiella pneumoniae</i> ATCC 4352
STANDARD FABRIC : COTTON
WASHING CONDITION : NORMAL CYCLE, WASH TEMP 40 ± 3 °C, LINE DRY, 20 TH WASH
SAMPLE WEIGHT : 1.0 g
PERCENT REDUCTION OF BACTERIA (%) : $[(M_a - M_c) / M_a] \times 100$ , $[(M_b - M_c) / M_b] \times 100$
M <sub>a</sub> : START
M <sub>b</sub> : AVERAGE OF THE NUMBER OF BACTERIA ON THE UNTREATED TEST PIECE AFTER 24HRS.
M <sub>c</sub> : AVERAGE OF THE NUMBER OF BACTERIA ON THE ANTIMICROBIAL TEST PIECE AFTER 24HRS.

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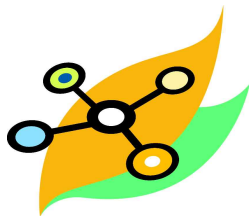
## KS STANDARD



**BIOTECA** Co., Ltd.

BIOTECA CO., LTD.  
  
 Ki Seok Nam / Technical Manager

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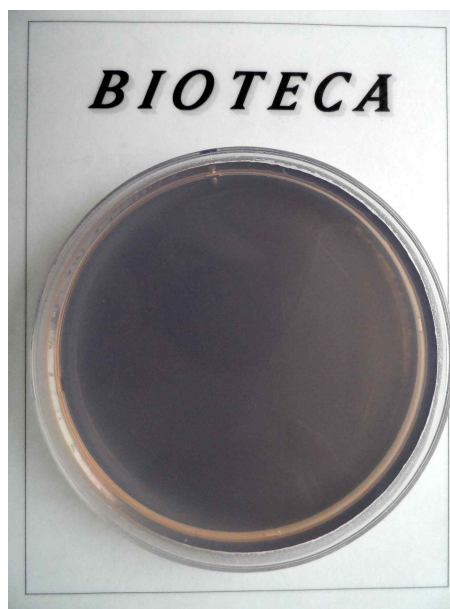
*S. aureus* - Blank



*S. aureus* - Sample



*K. pneumoniae* - Blank



*K. pneumoniae* - Sample

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