

BESTECH R & D CENTER

133-1, Sangdaewon-Dong, Jungwon-Gu, Seongnam-Si, Gyeonggi-Do, Korea

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T E S T R E P O R T

APPLICANT : NANOPOLY CO., LTD.

REPORT NO. : BT-0604-020(E)

SAMPLE RECEIVED DATE : 2006-04-08

TEST STARTED DATE : 2006-04-08

REPORT ISSUED DATE : 2006-04-12

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SAMPLE DESCRIPTION : ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE "NanoMix Cera".

(1) TEST RESULTS : SHAKE FLASK METHOD (APPLY TO KS M 0146)

CONTENT \ TEST BACTERIA	<i>Staphylococcus aureus</i> ATCC 6538	
	# 1	# 2
INOCULUM CONCENTRATION (CFU/ml)	3.4×10^5	
M _a	3.4×10^5	
M _b	3.6×10^5	
M _c	1.1×10^3	< 10
PERCENT REDUCTION OF BACTERIA (%)	99.7	99.9
NONIONIC WETTING AGENT	TWEEN 80 (0.05%)	

CONTENT \ TEST BACTERIA	<i>Escherichia coli</i> ATCC 25922	
	# 1	# 2
INOCULUM CONCENTRATION (CFU/ml)	2.9×10^5	
M _a	2.9×10^5	
M _b	3.0×10^5	
M _c	6.0×10^2	< 10
PERCENT REDUCTION OF BACTERIA (%)	99.8	99.9
NONIONIC WETTING AGENT	TWEEN 80 (0.05%)	

REMARK) · < = LESS THAN

· CFU = Colony Forming Unit

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(2) TEST METHOD

TEST BACTERIA : STRAIN 1 - <i>Staphylococcus aureus</i> ATCC 6538 STRAIN 2 - <i>Escherichia coli</i> ATCC 25922
NEUTRALIZED SOLUTION : PHOSPHATE BUFFER (pH 7.0 ± 0.2)
PRECONDITION : DEIONIZED WATER RINSED FOR 24 HOURS
SAMPLE WEIGHT : 5.0 g
SHAKE SPEED : 120 rpm
PERCENT REDUCTION OF BACTERIA (%) : $[(M_b - M_c) / M_b] \times 100$
M _a : START
M _b : AVERAGE OF THE NUMBER OF BACTERIA ON THE UNTREATED TEST PIECE AFTER 1 MIN, 5 MIN.
M _c : AVERAGE OF THE NUMBER OF BACTERIA ON THE ANTIMICROBIAL TEST PIECE AFTER 1 MIN, 5 MIN



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S. aureus - Blank



S. aureus - 1 MIN



S. aureus - 5 MIN

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E. coli - Blank



E. coli - 1 MIN



E. coli - 5 MIN

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