



# BESTECH R&D CENTER

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## T E S T R E P O R T

APPLICANT : NANOPOLY CO., LTD.

REPORT NO. : BT-0511-002

SAMPLE RECEIVED DATE : 2005-11-02

TEST STARTED DATE : 2005-11-02

REPORT ISSUED DATE : 2005-11-04

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SAMPLE DESCRIPTION : ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE "Nano silver colloidal (SDW15DE13DW5) 5ppm".

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

CONTENT	TEST BACTERIA	MRSA (Methicillin Resistance <i>S. aureus</i> ) ATCC 33592
INOCULUM CONCENTRATION (CFU/ml)		1.6 x 10 <sup>5</sup>
M <sub>a</sub>		1.6 x 10 <sup>5</sup>
M <sub>b</sub>		1.7 x 10 <sup>5</sup>
M <sub>c</sub>		2.0 x 10 <sup>3</sup>
PERCENT REDUCTION OF BACTERIA (%)		98.8
NONIONIC WETTING AGENT		TWEEN 80 (0.05%)

REMARK) · < = LESS THAN

· CFU = Colony Forming Unit

### (2) TEST METHOD

TEST BACTERIA : MRSA (Methicillin Resistance <i>S. aureus</i> ) ATCC 33592
NEUTRALIZED SOLUTION : PHOSPHATE BUFFER (pH 7.0 ± 0.2)
SAMPLE CONCENTRATION : 100 %
SHAKE SPEED : 120 rpm
PERCENT REDUCTION OF BACTERIA (%) : [(M <sub>b</sub> - M <sub>c</sub> ) / M <sub>b</sub> ] × 100
M <sub>a</sub> : START
M <sub>b</sub> : AVERAGE OF THE NUMBER OF BACTERIA ON THE UNTREATED TEST PIECE AFTER 1 MIN.
M <sub>c</sub> : AVERAGE OF THE NUMBER OF BACTERIA ON THE ANTIMICROBIAL TEST PIECE AFTER 1 MIN.

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Nano silver colloidal  
(SDW15DE13DW5) 5ppm



MRSA - Blank



MRSA - Sample

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