

STUDY TITLE

Determining Antimicrobial Activity of Antimicrobial Agents Under Dynamic Contact Conditions (ASTM E2 I 49 - 13a)

SPONSOR

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TEST ARTICLE NAME

Surgical Caps

TEST ARTICLE IDENTIFICATION

Surgical Caps

TEST ARTICLE PHYSICAL DESCRIPTION

Printed textile

TEST ARTICLE RECEIVED

December 21, 2016

PURPOSE

The purpose of this study was to evaluate the antimicrobial activity of non-leaching, antimicrobial treated samples under dynamic contact conditions.

RESULTS

Test Article Identification	Organism Count (CFU/mL)		Percent Reduction	Log Reduction
	Zero Time	1 Hour		
Inoculum only - <i>S. aureus</i>	2.26×10^5	2.17×10^6		
Inoculum only - <i>E. coli</i>	1.91×10^5	2.30×10^6		
Inoculum only - <i>E. faecalis</i>	1.53×10^5	1.87×10^6		
Inoculum only - <i>C. albicans</i>	1.51×10^5	1.05×10^6		
Sample 1 - <i>S. aureus</i>		$< 1.00 \times 10^1$	> 99.99	> 4.21
Sample 2 - <i>S. aureus</i>		$< 1.00 \times 10^1$	> 99.99	> 4.21
Sample 3 - <i>S. aureus</i>		$< 1.00 \times 10^1$	> 99.99	> 4.21
Sample 4 - <i>S. aureus</i>		1.63×10^5		
Sample 1 - <i>E. coli</i>		$< 1.00 \times 10^1$	> 99.99	> 4.75
Sample 2 - <i>E. coli</i>		$< 1.00 \times 10^1$	> 99.99	> 4.75
Sample 3 - <i>E. coli</i>		$< 1.00 \times 10^1$	> 99.99	> 4.75
Sample 4 - <i>E. coli</i>		5.57×10^5		
Sample 1 - <i>E. faecalis</i>		$< 1.00 \times 10^1$	> 99.99	> 3.99
Sample 2 - <i>E. faecalis</i>		$< 1.00 \times 10^1$	> 99.99	> 3.99
Sample 3 - <i>E. faecalis</i>		$< 1.00 \times 10^1$	> 99.99	> 3.99
Sample 4 - <i>E. faecalis</i>		9.77×10^4		
Sample 1 - <i>C. albicans</i>		$< 1.00 \times 10^1$	> 99.99	> 3.91
Sample 2 - <i>C. albicans</i>		$< 1.00 \times 10^1$	> 99.99	> 3.91
Sample 3 - <i>C. albicans</i>		$< 1.00 \times 10^1$	> 99.99	> 3.91
Sample 4 - <i>C. albicans</i>		8.10×10^4		