



CERTIFICATE OF ANALYSIS

MICROBECARE™

Date: May 25, 2006

Test Method: ASTM E2149-01

Tested Against: Methicillin Resistant *Staphylococcus aureus* (MRSA)

This antibacterial test was performed to demonstrate the effectiveness of the MICROBECARE™ technology against Methicillin Resistant *Staphylococcus aureus* (MRSA) strain. Test Methods conform to ASTM E2149-01 guidelines (Standard Test Method for Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions). Specific details of testing and materials are listed below in the table.

These data indicate that the fabric tested, commercially treated with the MICROBECARE™ Technology (AEM5772/5), reduces the total population of MRSA bacteria >99.99%. Untreated fabric samples tested in parallel demonstrated no effectiveness at reducing the total MRSA population. These results indicate the antimicrobial effectiveness of the sample treated with the MICROBECARE™ Technology against the resistant bacteria MRSA.

	MICROBIOLOGICAL ANALYSIS		
	Initial Concentration	Final Concentration	Percent Reduction
Untreated fabric sample	1.52×10^5 / ml	1.6×10^5 / ml	0%
Treated fabric sample	1.52×10^5 / ml	$< 1.0 \times 10^1$ / ml	>99.99%
Inoculum control	1.52×10^5 / ml	1.55×10^5 / ml	0%

ASTM E2149-01	
Standard Test Method for Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions.	
Total Contact Time:	1 hour
Total Volume:	50 ml 0.3 mM KH ₂ PO ₄ + 0.01% Q2-5211
Bacterial Strain:	Clinical Isolate Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA)
Description of Sample Tested:	1g each fabric commercially treated and untreated with AEM5772/5



MICROBECARE™

Certified by:

Robert A. Monticello, Ph.D.

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(5-25-06)

For questions or additional information regarding this Certificate of Analysis, please contact us.
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