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Antimicrobial Assessment Two Vinyl/PU Fabric Samples

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Two vinyl/PU fabric samples, treated with Ultra-Fresh DW-30, were received on January 22, 2013. At Thomson Research Associates Inc., the samples were tested for antimicrobial activity using a quantitative test method.

PROCEDURE

Quantitative Antibacterial Assessment:

ISO 22196:2011 was used to quantitatively test the specimen for antibacterial activity. In brief:

1. The sample was placed into a container with a lid.
2. A 0.3 mL inoculum of Methicillin Resistant *Staphylococcus aureus* (ATCC #33591) was placed, in microdroplets, on the surface of the samples.
3. The specimen was incubated 24 hours at 37C.
4. 20 mL of Letheen broth was added to the container and shook. The liquid was plated using dilution techniques.
5. The "Value of Antimicrobial Activity" was carried out using the formula

$$R = [\log (B/C)]$$

Where:

R= value of antimicrobial activity

B = Average of the number of viable cells of bacteria on the untreated test piece / inoculum control after 24 hours

C = Average of the number of viable cells of bacteria on the antimicrobial test piece after 24 hours.

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RESULTS

Quantitative Assessment of Activity - ISO 22196:2011						
MRSA						
Concentration of starting inoculum				8.80 x 10 ⁵ CFU/mL		
Sample Description			No. Bacteria Recovered	Log Value	R = [log(B/C)]	% Reduction
1	mep0074012 – pvc quality	Coated Side	<2.00 x 10 ¹	<1.3	>3.3	>99.9%
		Fabric Side	<2.00 x 10 ¹	<1.3	>3.3	>99.9%
2	mep0062004 – pu quality	Coated Side	<2.00 x 10 ¹	<1.3	>3.3	>99.9%
		Fabric Side	<2.00 x 10 ¹	<1.3	>3.3	>99.9%
Inoculum Control			4.19 x 10 ⁴	4.6	----	----

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