



January 27, 2014

## **Antimicrobial Assessment of One Coated Fabric Sample**

**3000741**

One coated fabric sample, treated with Ultra-Fresh DW-30, was received from Vinteks San Tic Ltd. STI on January 16, 2014. At Thomson Research Associates Inc., the sample was 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. Sterile films were placed over the inoculum to encourage good contact.
3. The specimen was incubated 24 hours at 37C.
4. 20 mL of Lethen 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 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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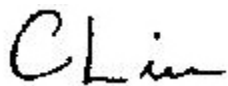
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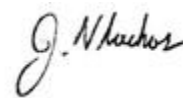
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**RESULTS**

Quantitative Assessment of Activity - ISO 22196:2011						
MRSA						
Concentration of starting inoculum				1.02 x 10 <sup>5</sup>		
Sample Description		No. Bacteria Recovered	Log Value	R = [log(B/C)]	% Reduction	
Inoculum Control		3.66 x 10 <sup>5</sup>	5.6	----	----	
1	Burghley	Coated	<2.00 x 10 <sup>1</sup>	<1.3	>4.3	>99.9%
		Non-coated	<2.00 x 10 <sup>1</sup>	<1.3	>4.3	>99.9%

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