



**Study title:**

**Antibacterial Finished on Textile Materials: Assessment of**

**AATCC 100-2012**

**Job reference – J001085**

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<b>Lab Ref</b>	<b>J001085</b>
<b>Report Date</b>	<b>24/05/2019</b>
<b>Period of Analysis</b>	<b>21/05/2019-23/05/2019</b>

<b>Customer</b>	<b>Openhouse Products Ltd</b>
<b>Contact Name</b>	<b>Josh Reid</b>
<b>Address</b>	<b>125 Craven Street, Birkenhead, Merseyside, United</b>
<b>Email</b>	<b>josh@openhouseproducts.com</b>
<b>PO Number</b>	<b>Q001636</b>

<b>Name of product</b>	Red MicrAgard Plus Wipe Clean (Test) Red PVC (Control) 600D Red polyester (Control)
<b>Batch number</b>	N/S
<b>Manufacturer / Supplier</b>	Openhouse Products Ltd
<b>Storage Conditions</b>	Ambient
<b>Appearance of the Product</b>	Red fabric
<b>Method</b>	AATCC 100
<b>Temperature of Incubation</b>	Bacteria 37°C ±2°C for 48 hours
<b>Identification test organism strains:</b>	Vancomycin Resistant <i>Enterococcus</i> NCTC 12201
<b>Incubation Time</b>	24 hours

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#### Introduction

The test method is designed to give an assessment of the level of antibacterial activity possessed by antimicrobial finishes on textile material.

#### Outline of Test Method

Circular swatches of the test and control material are cut to 4.8 cm. Swatches are stacked as required for the absorption of 1ml of liquid, leaving no free liquid.

Control and test materials are exposed to 1ml of bacterial inoculum, samples were recovered at time points of 0 hours and 24 hours in 100ml of neutralizer, and enumerated to calculate the remaining level of bacteria. Samples were incubated at 37°C ±2°C for the 24 hour test period.

#### Deviations from Standard Method

A single swatch of each fabric was tested, the fabrics tested did not absorb liquid or allow it to leach through.

The product was tested against vancomycin resistant enterococcus only.





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The product when tested as above shall demonstrate a clear area of interrupted growth underneath and along the sides of the test material indicating antibacterial activity of the specimen.

**Conclusion**


The test fabric **Red MicrAgard Plus Wipe Clean** has shown a **2.05 log reduction (99.12%)** against **vancomycin resistant enterococcus**, following a 24 hour contact time.

Untreated control fabrics 600D red polyester and Red PVC showed no reduction in bacterial counts, both fabrics showed an increase in vancomycin resistant enterococcus within the 24 hour contact time.

*See raw data tables below for test results.*

The sample will be retained for 1 month unless otherwise requested.

  
Senior Microbiologist  
Yvie Newall

  
Technical Projects Team Leader  
Megan Barrett

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**Test Results:**  
600D red polyester

			Dil	Cfu/ml	Cfu	Log <sub>10</sub> cfu	Average Log (N <sub>w</sub> /N <sub>d</sub> )	Reduction
<b>Vancomycin Resistant Enterococcus NCTC 12201</b>	0 hours	Repeat 1	2	32	320000	5.51	5.49	-1.84
		Repeat 2	2	30	300000	5.48		
	24 Hours	Repeat 1	3	215	21500000	7.33	7.33	
		Repeat 2	3	209	20900000	7.32		

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**Test Results:**  
Red PVC

			Dil	Cfu/ml	Cfu	Log <sub>10</sub> cfu	Average Log (N <sub>w</sub> /N <sub>d</sub> )	Reduction
<b>Vancomycin Resistant Enterococcus NCTC 12201</b>	0 hours	Repeat 1	2	46	460000	5.66	5.63	-1.50
		Repeat 2	2	40	400000	5.60		
	24 Hours	Repeat 1	3	138	13800000	7.14	7.13	
		Repeat 2	3	133	13300000	7.12		

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Test Results:

Red MicrAgard Plus Wipe Clean

			Dil	Cfu/ml	Cfu	Log <sub>10</sub> cfu	Average Log (N <sub>w</sub> /N <sub>d</sub> )	Reduction
Vancomycin Resistant Enterococcus NCTC 12201	0 hours	Repeat 1	2	33	330000	5.52	5.51	2.05
		Repeat 2	2	32	320000	5.51		
	24 Hours	Repeat 1	N	14	1400	3.15	3.46	
		Repeat 2	N	60	6000	3.78		

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