

## Certificate of Antibacterial Analysis

SAMPLE DETAILS Formica Solid Color Laminates (white)

Page 1 of 1

CUSTOMER: Formica

Certificate No. 1021537.003/0507

Customer Ref. 80/036-039

### Testing Method: Determination of Antibacterial Activity using JIS Z2801: 2012

DATE ANALYSED: 05/12/2013

DATE REPORTED: Dec/2013

#### RESULTS (as CFUs cm<sup>-2</sup>)

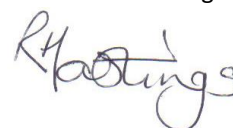
Sample	Test Bacterium	Contact Time		Reduction of Bacteria		R value
		0 hrs	24 hrs	Log <sub>10</sub>	%	
Formica Solid Color Laminates (white)	Methicillin resistant <i>Staphylococcus aureus</i>	2.4E+05	< 11.11	>4.33	>99.99%	4.33
	<i>Escherichia coli</i>	1.0E+05	< 11.11	>3.94	>99.98%	3.94
	<i>Enterococcus faecalis</i>	1.9E+04	< 11.11	>3.22	> 99.94%	3.22
	<i>Klebsiella pneumoniae</i>	1.7E+04	< 11.11	>3.17	>99.93%	3.17
	<i>Pseudomonas aeruginosa</i>	1.7E+04	< 11.11	>3.17	>99.93%	3.17
	<i>Salmonella typhimurium</i>	1.6E+04	< 11.11	>3.15	>99.30%	3.15
	<i>Staphylococcus aureus</i>	2.1E+04	< 11.11	>3.27	>99.94%	3.27
	<i>Candida albicans</i>	1.7E+04	< 11.11	>3.18	>99.93%	3.18

Samples included in this Certificate of Analysis were pre-treated before testing by dry heat aging at 85°C for 5 days. Samples were tested in triplicate. Results presented in this Certificate of Analysis were calculated from mean values. The above data show the difference in the size of bacterial populations following contact with the surface of the samples included in this certificate for 24 hours at 35°C under a RH of >95% relative to the initial (inoculum) population sizes. Testing of silver treated materials included in this Certificate of Analysis was compared to antibacterial performance results of identical, untreated laminates supplied by customer for testing purposes. Control laminates were artificially aged as described above.

BioCote Ltd  
BioCote House, Oak Court  
Pilgrim's Walk  
Prologis Park, Coventry  
CV6 4QH, UK

Email: [biocote@biocote.com](mailto:biocote@biocote.com)  
Tel: +44 (0) 2476 712 489  
Fax: +44 (0) 2476 338 081  
Web: [www.biocote.com](http://www.biocote.com)

Technical Director  
Dr. Richard Hastings



# IMSL

Register in England No. 3264423  
Web: [www.imsl-uk.com](http://www.imsl-uk.com)

Managing Director  
Peter D Askew