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Your Ref:

**Our Ref: FB58222/T
TEST REPORT**

Date: 20/04/2011

Page 1 of 2

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Subject : Antimicrobial efficacy test on one sample of 'Safeguard Plus Compact Laminate (High Pressure Laminate)' was submitted by Greenlam Asia Pacific Pte Ltd on 31/03/2011 and testing commenced on 04/04/2011.

Test For : **Greenlam Asia Pacific Pte Ltd**
18 Sungei Kadut Street 2, Level 2
Singapore 729236
Attn: Ms Lin Huiping

Test Method : Japanese Industrial Standard – JIS Z 2801: 2000

Test Organisms: *Escherichia coli* ATCC 8739
Staphylococcus aureus ATCC 6538P
Methicillin Resistant *Staphylococcus aureus*
(MRSA) ATCC 43300
Pseudomonas aeruginosa ATCC 9027
Salmonella typhimurim ATCC 14028

Sample Ref :

Lab Sample ID No:	Sample Description:
FB58222001	Safeguard Plus Compact Laminate / High Pressure Laminate (60 coated pieces – 50mm x 50mm)

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Results of active bacteria on control and test sample after 24 hours of incubation at 35°C

Test Organisms	Blank Control		FB48647001 (Test sample)		Log reduction
	cfu/piece	Log value	cfu/piece	Log value	
<i>Escherichia coli</i>	1.6 x 10 ⁵	5.2	<10	<1	4.2
<i>Staphylococcus aureus</i>	3.5 x 10 ⁴	4.5	<10	<1	3.5
Methicillin Resistant <i>Staphylococcus aureus</i>	1.0 x 10 ⁴	4.0	<10	<1	3.0
<i>Pseudomonas aeruginosa</i>	1.8 x 10 ⁵	5.3	1.6 x 10 ³	3.2	2.1
<i>Salmonella typhimurin</i>	1.1 x 10 ⁵	5.0	<10	<1	4.0

Conclusion: Based on the results obtained, the sample as received has achieved the Antimicrobial efficacy of not less than 2 log reduction in accordance with JIS Z 2801:2000.


 KEITH LEE
 SENIOR MICROBIOLOGIST
 BIOLOGICAL & CHEMICAL TECHNOLOGY DIVISION