

Antimicrobial Test Laboratories

Fast, Reliable Antimicrobial Efficacy Testing

Modified JIS Z 2801:2000 (Single Replicate) Study Report NG2437

Page 1 of 3

© Antimicrobial Test Laboratories, LLC 2011

Client Information

Company Name: EcoActive Surfaces, Inc. Sponsor: Alcavis
E-mail: ecoactivesurfaces@bellsouth.net

Test Information

Test(s) Performed: Modified JIS Z 2801:2000 Single Replicate (Study ID NG2437)
SOP Followed: ATL SOP 039 Performed by: J. Williams and A. Gregg

Sample Information

Test Substance ID(s): Oxititan Coated Film Sample(s) Received: 7-Jan-2011
Control Untreated Film

Parameters

Microorganism(s): *S. aureus* ATCC 6538 Exposure Temp. Room Temperature 23 ± 2°C
E. coli ATCC 8739 # of Test Carriers: 2 (1 Control, 1 Test)
Plating medium: Trypticase Soy Agar (Difco) Target Inoculum: 1 x 10⁵ CFU/Sample
Growth Medium: Tryptic Soy Broth (*Bacteria*) Plate Inc. Temp.: 36.0 ± 1°C
Contact Time: 24 Hours Ctrl Sample Size: ~2 x 2 inch
Diluent for Plating: D/E Broth (0.9ml Blanks) Test Sample Size: ~2 x 2 inch
Plate Incubation Time: 24 Hours

Controls

Neutralized: Passed (Time Zero Positive) Growth Control: Passed
Media Sterility: Passed, Control Plates Negative

Test Results

Test(s) Valid?: Yes "Passed?" See Results

Notes: The JIS Z 2801 test was performed under modified conditions due to the nature of the active ingredient. A total of 25 individual 0.015 ml inocula were placed on the surface of the coupons and then exposed to normal fluorescent office lighting for 24 hours at ambient temperature (23 ± 2°C). Following the contact time, samples were enumerated using standard dilution and plate count technique.

Tests Completed: 21-Jan-2011 Report Sent: 21-Jan-2011

3000 Joe DiMaggio Blvd
Suite 32
Round Rock, TX 78665

Phone: (512) 310-TEST
E-Mail: info@AntimicrobialTestLabs.com
Web site: <http://www.AntimicrobialTestLabs.com>

Antimicrobial Test Laboratories

Fast, Reliable Antimicrobial Efficacy Testing

Modified JIS Z 2801:2000 (Single Replicate) Study Report NG2437

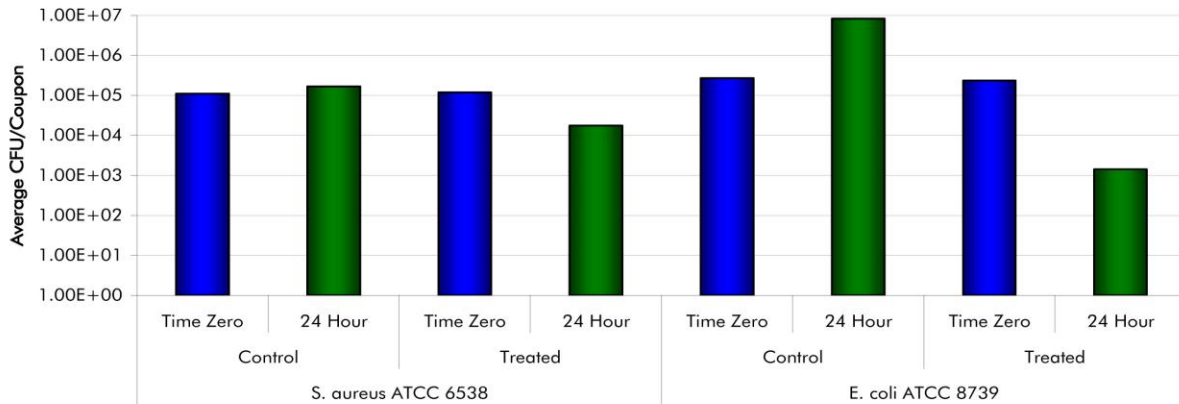
Page 2 of 3

© Antimicrobial Test Laboratories, LLC 2011

Results

Microorganism	Sample	Contact Time	Average CFU/Coupon	R-Value (compared to 24 hour control)	% Reduction (compared to 24 hour control)
<i>S. aureus</i> ATCC 6538	Control	Time Zero	1.10E+05	0.97	89.39%
		24 Hour	1.65E+05		
	Treated	Time Zero	1.20E+05		
		24 Hour	1.75E+04		
<i>E. coli</i> ATCC 8739	Control	Time Zero	2.70E+05	3.77	99.98%
		24 Hour	8.35E+06		
	Treated	Time Zero	2.35E+05		
		24 Hour	1.43E+03		

Modified JIS Z 2801



3000 Joe DiMaggio Blvd
Suite 32
Round Rock, TX 78665

Phone: (512) 310-TEST
E-Mail: info@AntimicrobialTestLabs.com
Web site: <http://www.AntimicrobialTestLabs.com>

Antimicrobial Test Laboratories

Fast, Reliable Antimicrobial Efficacy Testing

Modified JIS Z 2801:2000 (Single Replicate) Study Report NG2437

Page 3 of 3

© Antimicrobial Test Laboratories, LLC 2011

Additional Information

Method of Calculation of Antimicrobial Activity:

R (Average Log Reduction) = $\text{Log}(B/C)$, where:

B = Average number of viable cells on the control pieces after 24 hours.

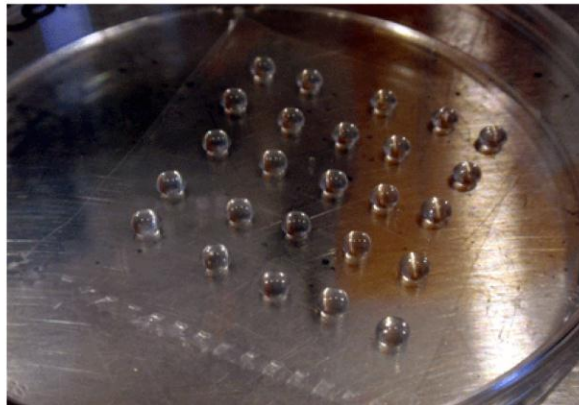
C = Average number of viable cells on the test pieces after 24 hours.

R-Value (Values of Antimicrobial Activity with Respect to Test Microorganism):

<i>S. aureus</i> ATCC 6538	0.97
<i>E. coli</i> ATCC 8739	3.77

Photographs From Study

Photograph of inoculated control sample prior to 24 hour incubation.



3000 Joe DiMaggio Blvd
Suite 32
Round Rock, TX 78665

Phone: (512) 310-TEST
E-Mail: info@AntimicrobialTestLabs.com
Web site: <http://www.AntimicrobialTestLabs.com>