

Antimicrobial Test Laboratories

Fast, Reliable Antimicrobial Efficacy Testing

Microbiology Study Report NG1647

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Client Information

Company Name:	<u>Yanex Technologies, Inc.</u>	Sponsor:	<u>Mark Stibich</u>
Sponsor's Phone:	<u>(713) 874-1237</u>	E-mail:	<u>mark@xenextechnologies.com</u>

Test Information

Test(s) Performed:	<u>Custom Antimicrobial Device Study, Utilizing Endospores of <i>C. difficile</i></u>		
SOP Followed:	<u>Custom - Surface Time-Kill</u>	Performed by:	<u>J. Williams, A. Rex</u>

Sample Information

Device ID(s):	<u>Xenex Pulsed Xenon U.V. (Alfa-01)</u>	Device to Lab:	<u>8/17/2009</u>
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Parameters

Microorganism(s):	<u><i>C. difficile</i> ATCC 43598 (endospores)</u>	Exposure Temp.	<u>Ambient Temperature (~22-23°C)</u>
Subculture Number:	<u>N/A (from Refrig. Stock Suspension)</u>	Type of Carrier:	<u>1" x 3" Glass Slide</u>
Growth Medium:	<u>N/A (from Refrig. Stock Suspension)</u>	Culture Grown (h):	<u>N/A (from Refrig. Stock Suspension)</u>
Carrier Dry Time:	<u>30 Minutes</u>	# of Test Carriers:	<u>9 Total (3 "time zero"; 3 8m; 3 12m)</u>
Heat Shock Step:	<u>10 Minutes at 75C (after soil add'n)</u>	CFU per Carrier:	<u>See Tables, Below</u>
Contact Time:	<u>See Tables, Below</u>	Plate Incub. Temp.:	<u>36.0 ± 1°C</u>
Organic Soil Load:	<u>MP Biomed Sterile Horse Serum, 5.0%</u>	Plate Incub. Time:	<u>5 ± 1 Days</u>
Neutralizer Used:	<u>None Required</u>	GLP or Non-GLP:	<u>Non-GLP (No QA Audit)</u>

Controls

Neutralized:	<u>N/A (No Neutraliz)</u>	Growth Control:	<u>Passed, <i>C. difficile</i> positive</u>
Media Sterility:	<u>Passed, Anaerobic Blood Agar Neg.</u>	Negative Control:	<u>Passed, Medium and Carrier</u>

Test Results

Test(s) Valid?:	<u>Yes</u>	Confirmation:	<u>Visual Appearance of Colonies</u>
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Notes: The endospores used for this study were obtained, under approved CDC etiological agent import permit, from Dr. Syed Sattar (CREM, University of Ottawa, Canada). The test organism was heat-shocked after soil addition but prior to deposition on the test coupons to ensure that only endospores were present for the test. Subsequent to treatment (and separately for "time zero" controls), endospores were cultured on Blood Agar "OxyPlates" (with supplements) to enhance germination.

Tests Completed: 8/17/2009

Report Sent: 8/28/2009

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Additional Test Information

Contact Time	Replicate	CFU / Glass Slide	Avg. CFU / Glass Slide
0 Seconds	R1	3.50E+05	3.33E+05
	R2	5.00E+05	
	R3	1.50E+05	
8 Minutes	R1	3.00E+01	4.33E+01
	R2	6.00E+01	
	R3	4.00E+01	
12 Minutes	R1	<10	6.67E+00
	R2	<10	
	R3	2.00E+01	

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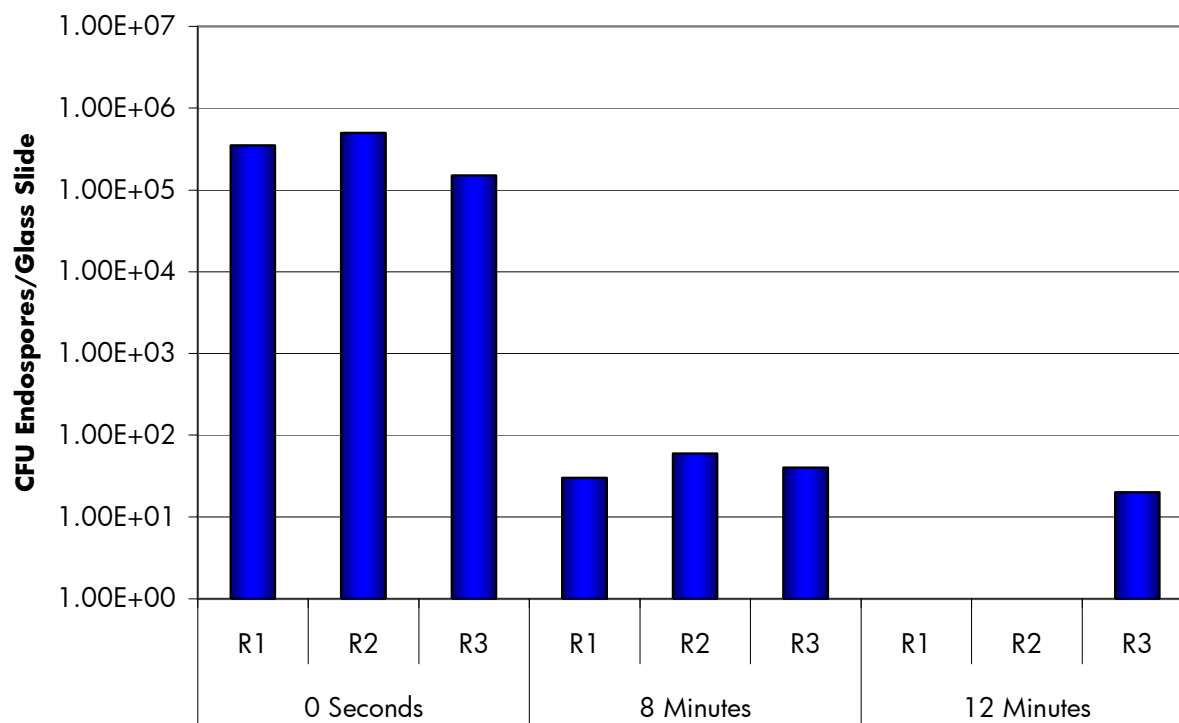
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Additional Test Information

***C. difficile* ATCC 43598 Endospores - 200 cm Treatment Distance**



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