

Antimicrobial Test Laboratories

Fast, Reliable Antimicrobial Efficacy Testing

Microbiology Study Report NG2980

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Client Information

Company Name:	<u>H&H Enterprises</u>	Sponsor:	<u>Shellie Rucinski</u>
Sponsor's Phone:	<u>702-876-6292 (207)</u>	E-mail:	<u>shellier@digispec.com</u>

Test Information

Test(s) Performed:	<u>AATCC 100 (Study ID NG2980)</u>	Performed by:	<u>J. Williams</u>
SOP Followed:	<u>010.1.</u>		

Test Substance Information

Date Received:	<u>5-Oct-11</u>	Test Substances:	<u>A, B & C</u>
Number Received:	<u>3</u>		

Parameters

Microorganism 1:	<u><i>K. pneumoniae</i> ATCC 4352</u>	Exposure Temp.	<u>36.0 ± 1°C</u>
Subculture #:	<u>1</u>	Type of Carrier:	<u>5cm dia. Swatch</u>
Growth Medium:	<u>Tryptic Soy Broth</u>	Neutralizer Used:	<u>D/E Broth, 20ml</u>
Contact Time:	<u>24 Hours</u>	# of Replicates:	<u>1</u>
Incubation Time:	<u>24-48 Hours</u>	Plate Incubation:	<u>36.0 ± 1°C</u>
Culture Dilution Medium:	<u>Nutrient Broth</u>	Inoculum Volume:	<u>1ml</u>
		Culture Supplement:	<u>0.1% (v/v) Triton X-100</u>

Controls

Neutralized:	<u>Passed</u>	Growth Control:	<u>Passed</u>
Broth Sterility:	<u>Passed, Control D/E Tube Neg.</u>	Agar Sterility:	<u>Passed</u>

Test Results

Test(s) Valid?:	<u>Yes</u>	Confirmation:	<u>Morphology on TSA</u>
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Notes: A 5cm swatch was cut from each sample submitted to the testing facility. The dilute culture suspension was supplemented with 0.1% (v/v) Triton X-100 to aid in absorption after inoculation. An ATL control sample was included and consisting of 100% cotton, and all calculated reductions were based on this control.

Tests Completed:	<u>10/17/2011</u>	Report Sent:	<u>10/18/2011</u>
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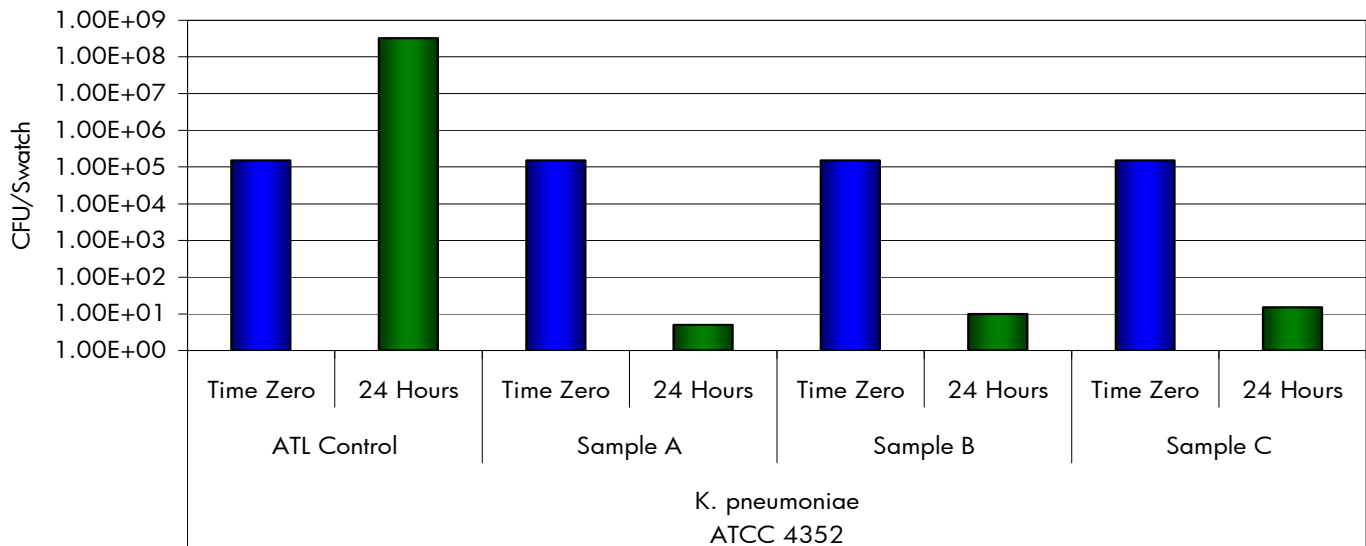
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Results

Microorganism	Test Substance	Contact Time	CFU/Swatch	% Reduction vs Time Zero Control
<i>K. pneumoniae</i> ATCC 4352	ATL Control	Time Zero	1.50E+05	N/A
		24 Hours	3.25E+08	
	Sample A	Time Zero	1.50E+05	99.997%
		24 Hours	5.00E+00	
	Sample B	Time Zero	1.50E+05	99.993%
		24 Hours	1.00E+01	
	Sample C	Time Zero	1.50E+05	99.990%
		24 Hours	1.50E+01	

AATCC 100 Results



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Additional test Information

$$\% \text{ Reduction} = 100 \times (C-A)/C$$

Where:

C = Number of bacteria on the untreated swatch immediately after inoculation

A = Number of bacteria on each treated sample after the contact time



Photograph of samples prior to inoculation with *K. pneumoniae* ATCC 4352.