

# Antimicrobial Test Laboratories

## Fast, Reliable Antimicrobial Efficacy Testing

### Microbiology Study Report

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#### Client Information

Company Name:	<u>Advanced Vapor Technologies</u>	Sponsor:	<u>Rick Hoverson</u>
Sponsor's Phone:	<u>(800) 997-6584</u>	E-mail:	<u>rick@advap.com</u>

#### Test Information

Test(s) Performed:	<u>AVT LT Study #1 (Ultra-Low Contact Time Kill-Curve Generation for "Standard" Microorganisms)</u>		
Study ID #:	<u>PT505</u>	SOP Followed:	<u>ATL SOP C-005</u>
		Performed by:	<u>B. Tanner</u>

#### Sample Information

Test Substance ID(s):	<u>SVS w/TANCS Technology</u>	Unit ID Number:	<u>55120401165</u>
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#### Parameters

Microorganism(s):	<u>See Charts, Below</u>	Type of Carrier:	<u>Unglazed Clay Coupon</u>
Subculture Number:	<u>1 Where Applicable</u>	# of Test Carriers:	<u>(12) Tests, 5 Carriers Each</u>
Growth Medium:	<u>Difco Nutrient Broth</u>	Carrier Dry Time:	<u>20 minutes</u>
Contact Time:	<u>0, 0.5, 1, 2, and 5 seconds</u>	CFU per Carrier:	<u>See Table, Page 2</u>
Organic Soil Load:	<u>n/a</u>	Incubation Temp.:	<u>35.0 (+/- 1) C</u>
Neutralizer Used:	<u>10 mL D/E Broth (for Elution Only)</u>	Incubation Time:	<u>24-48 hours</u>

#### Controls

Neutralized:	<u>N/A</u>	Growth Control:	<u>Passed, all organisms +</u>
Media Sterility:	<u>Passed, All Control Jars Neg</u>		

#### Test Results

# of Carriers Positive:	<u>See chart, Page 2</u>	Confirmation:	<u>Colony morphology</u>
# of Carriers Negative:	<u>See chart, Page 2</u>	Test(s) Valid?:	<u>Yes</u>

**Notes:** For this test, six microorganisms were tested in duplicate, with each test plated in duplicate. The tests for MS2 were repeated since the original tests were below target for initial PFU/carrier.

Lab contact information amended 3/31/08.

**Tests Completed:** 7/5, 7/11, and 7/17/07

**Report Sent:** (Updated 10/15/07 for MRSA/VRE)

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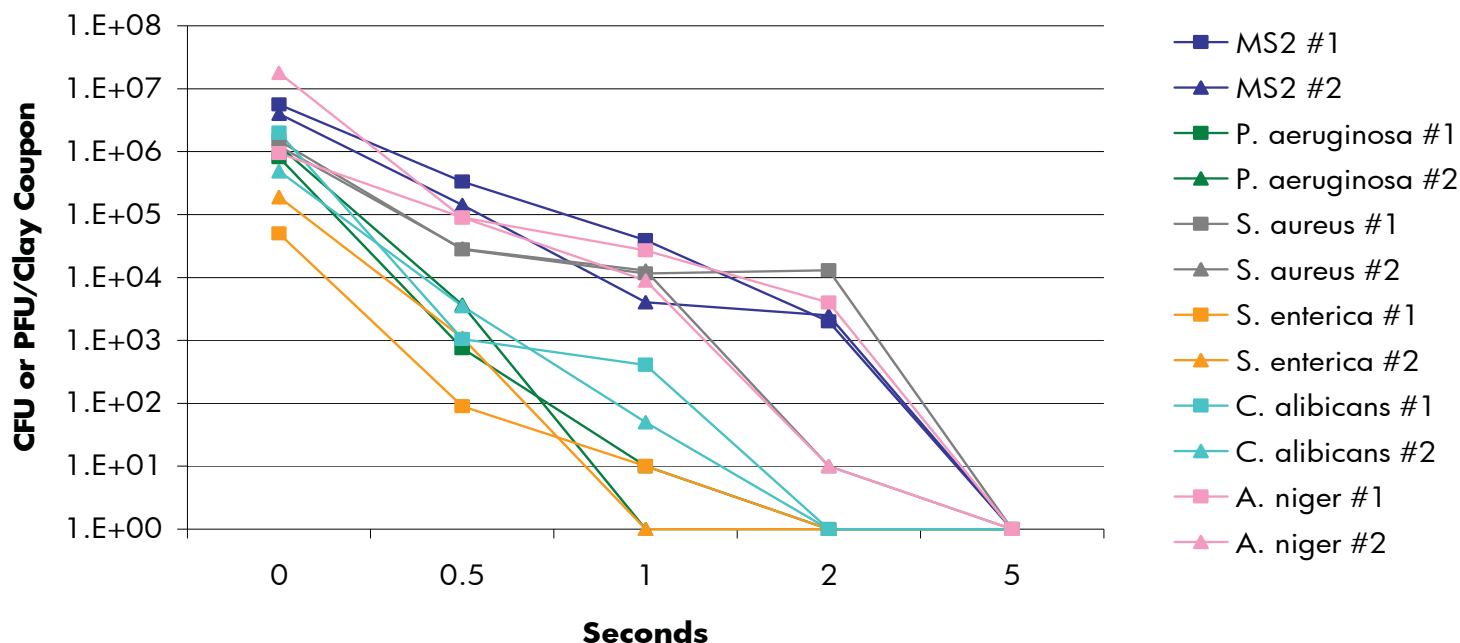
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### Additional Study Information

Summary Microbe/Carrier Table for TANCS Ultra-Low Contact Time Expt Finished 7-17-07					
Organism	0 seconds	0.5 seconds	1 second	2 seconds	5 seconds
MS2 #1	5650000	334000	39000	2010	0
MS2 #2	4000000	142000	4040	2490	0
P. aeruginosa #1	820000	750	10	0	0
P. aeruginosa #2	1240000	3660	0	0	0
S. aureus #1	1500000	27840	11560	13080	0
S. aureus #2	1225000	28880	12920	10	0
S. enterica #1	50000	90	10	0	0
S. enterica #2	190000	1100	0	0	0
C. alibicans #1	2000000	1060	410	0	0
C. alibicans #2	490000	3500	50	0	0
A. niger #1	950000	90000	27000	4000	0
A. niger #2	18000000	90000	9000	10	0

### Time-Kill Chart for TANCS Unit - Individual Replicates



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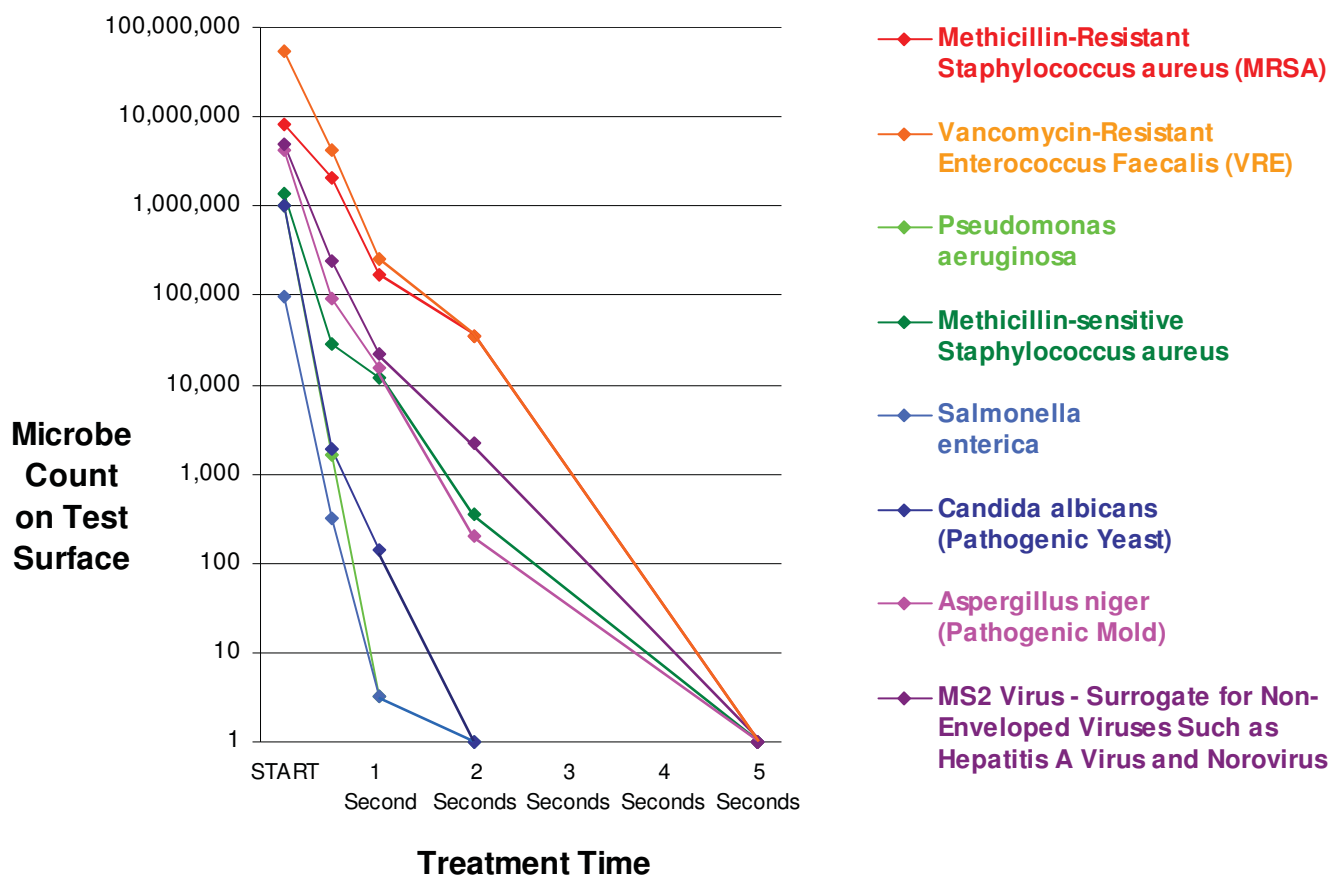
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### Additional Study Information

#### Time-Kill Chart - VaporJet PC 2400 with TANCS Option Average of 2 Replicates - Dried Film of Microbes on Porous Clay Test Surface



**Note:** This chart also references an Antimicrobial Test Laboratories MRSA/VRE study, completed 8/2/07