

# Antimicrobial Test Laboratories

## Fast, Reliable Antimicrobial Efficacy Testing

### Microbiology Study Report

Page 1 of 2

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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>Evaluation of the Effect of (5) Intermittent 1-Second Contact Times for VaporJet 2400 w/TANCS</u>		
Study ID #:	<u>PT502</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><i>E. coli</i>, <i>S. aureus</i>, <i>P. aeruginosa</i></u>	Type of Carrier:	<u>Unglazed Clay Coupon</u>
Subculture Number:	<u>2</u>	# of Test Carriers:	<u>12 (6 for T = 0, 6 for Treatment)</u>
Growth Medium:	<u>Difco Nutrient Broth</u>	Carrier Dry Time:	<u>20 minutes (in 35C Incubator)</u>
Contact Time:	<u>~5s Total</u>	CFU per Carrier:	<u>See Table, Page 2</u>
Organic Soil Load:	<u>5% Horse Serum</u>	Incubation Temp.:	<u>35.0 (+/- 1) C</u>
Neutralizer Used:	<u>10 mL D/E Broth</u>	Incubation Time:	<u>36 Hours</u>

#### Controls

Neutralized:	<u>N/A</u>	Growth Control:	<u>Passed, all Organisms (+)</u>
Media Sterility:	<u>Passed, All Control Tubes (-)</u>		

#### Test Results

# of Carriers Positive:	<u>0</u>	Confirmation:	<u>N/A (All Test Carriers Negative)</u>
# of Carriers Negative:	<u>6 (All that Were Treated)</u>	Test(s) Valid?:	<u>Yes (Also See Associated Video of Test)</u>

**Notes:** For this test, *E. coli* 11229, *S. aureus* 6538, and *P. aeruginosa* 15442 were mixed individually with 5% "soil" and 10 microliters was dried onto clay coupons. After drying for 20 m, each coupon was treated with the steam vapor system by placing the triangular head directly on the coupon for (5) intermittent 1-Second contact times, all occurring within about 10s. Each microorganism was tested in duplicate and each coupon was enumerated in duplicate.

Lab contact information amended 3/31/08.

**Test Completed:** 11/15/2007

**Report Sent:** 11/16/2007

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Page 2 of 2

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### Additional Study Information

Organism	CFU/Coupon Before Treatment	CFU/Coupon After Treatment
<i>S. aureus</i> Rep #1	1,775,000	0
<i>S. aureus</i> Rep #2	2,030,000	0
<i>E. coli</i> Rep #1	195,000	0
<i>E. coli</i> Rep #2	205,000	0
<i>P. aeruginosa</i> Rep #1	2,070,000	0
<i>P. aeruginosa</i> Rep #2	1,240,000	0

**Time-Kill Chart - VaporJet 2400w/TANCS:  
(5) 1 Second Exposures within 10 Seconds, 11-16-07**

