# Antimicrobial Test Laboratories Fast, Reliable Antimicrobial Efficacy Testing

#### **Microbiology Study Report**

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Client Information			
Company Name:	Advanced Vapor Technologies	Sponsor:	Rick Hoverson
Sponsor's Phone:	(800) 997-6584	E-mail:	rick@advap.com
Test Information			
Test(s) Performed:	Quantitative Technology Comparison fo	or Traditional Liauid Ch	emical Disinfectants (AVT LT Study #5)
Study ID #:	PT509	SOP Followed:	ATL SOP C-005
,		Performed by:	B. Tanner
Sample Information			
Test Substance ID(s):	Lysol I.C. Quaternary Disinfectant	Lot Number:	MA 6223A 09019-OH001
.,	Clorox Germicidal Bleach		A8717011 5813-CA3
	Waxie "Swish" Disinfectant Cleaner		A6355 0708 251-20
Parameters			
Microorganism(s):	Various, see subsequent pages	Type of Carrier:	Unglazed Clay Coupon
Subculture Number:	1 Where Applicable	# of Test Carriers:	12 Tests, 2 Carriers Each
Growth Medium:	Difco Nutrient Broth	Carrier Dry Time:	20 minutes
Contact Time:	0 and 5 seconds	CFU per Carrier:	Various, see subsequent pages
Organic Soil Load:	5% Horse Serum	Incubation Temp.:	35.0 (+/- 1) C
Neutralizer Used:	10 mL D/E Broth	Incubation Time:	24 - 48 hours
Controls			
Neutralized:	Yes	Growth Control:	Passed, all organisms
Media Sterility:	Passed, All Control Jars Neg		
Test Results			
# of Carriers Positive:	See subsequent pages	Confirmation:	Colony morphology
# of Carriers Negative:	See subsequent pages	Test(s) Valid?:	Yes
<b>Notes:</b> For this te	st, six microorganisms were tested in dup	olicate, against 3 traditio	onal disinfectant products with each
test plated in duplicate.	The disinfectants studied were diluted in a	ordinary tap water, who	ere applicable, and were
prepared for use and use	d in accordance with label instructions fo	or disinfection, except th	at all contact times were 5 seconds.
Note: The tables in this r	eport also reference Vaporjet 2400 w/TA	ANCS data from previo	us studies (AVT LT Studies 1 and 2).
Lab contact information a	mended 3/31/08.		

Tests Completed: 9/1/2007
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Round Rock, Texas 78665

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9/4/07

**Report Sent:** 

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#### **Additional Study Information**

Staphylococcus aureus 6538			
	Time/Rep	CFU	
lysol	0R1	8,750,000	
	0R2	9,200,000	
	5R1	840,000	
	5R2	1,030,000	
	0R1	10,300,000	
clorox	0R2	8,300,000	
CIOIOX	5R1	3,900	
	5R2	1,850	
phenolic	0R1	9,900,000	
	0R2	9,000,000	
	5R1	7,100	
	5R2	5,700	

Candida albicans 10231		
	Time/Rep	CFU
	0R1	3,500
lysol	0R2	8,500
iysui	5R1	50
	5R2	100
	0R1	2,000
clorox	0R2	3,000
CIOTOX	5R1	200
	5R2	0
phenolic	0R1	1,500
	0R2	3,000
	5R1	0
	5R2	0

Pseudomo	nas aerugi	inosa 15442	
	Time/Rep	CFU	
lysol	0R1	3,300,000	
	0R2	4,300,000	
	5R1	38,500	
	5R2	72,000	
clorox	0R1	2,460,000	
	0R2	3,950,000	
	5R1	15,500	
	5R2	2,000	
phenolic	0R1	2,000,000	
	0R2	3,450,000	
	5R1	50,000	
	5R2	105,000	

Aspergillus niger 6275			
	Time/Rep	CFU	
	0R1	110,000	
lysol	0R2	335,000	
iysui	5R1	65,000	
	5R2	85,000	
	0R1	230,000	
clorox	0R2	190,000	
CIOTOX	5R1	2,600	
	5R2	2,400	
phenolic	0R1	205,000	
	0R2	225,000	
prienonc	5R1	37,500	
	5R2	57,000	

Salmonella enterica 10708			
	Time/Rep	CFU	
	0R1	115,000	
lvool	0R2	130,000	
lysol	5R1	550	
	5R2	3,250	
	0R1	90,000	
clorox	0R2	105,000	
CIOIOX	5R1	1,300	
	5R2	2,800	
phenolic	0R1	65,000	
	0R2	55,000	
	5R1	200	
	5R2	1,050	

MS2		
	Time/Rep	CFU
lysol	0R1	10,500
	0R2	7,500
	5R1	19,500
	5R2	17,500
	0R1	360,000
clorox	0R2	120,000
CIOIOX	5R1	13,100
	5R2	13,700
phenolic	0R1	220,000
	0R2	140,000
	5R1	32,400
	5R2	24,200

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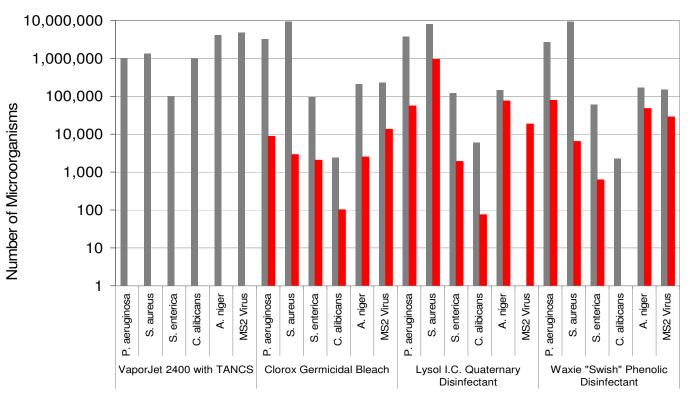
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#### **Additional Study Information**

#### Killed and Surviving Microorganisms After 5 Seconds of **Treatment by Four Different Technologies** (Dried Film of Microorganisms on Clay Surface)

■ Microorganisms Killed by Treatment ■ Microorganisms Surviving Treatment



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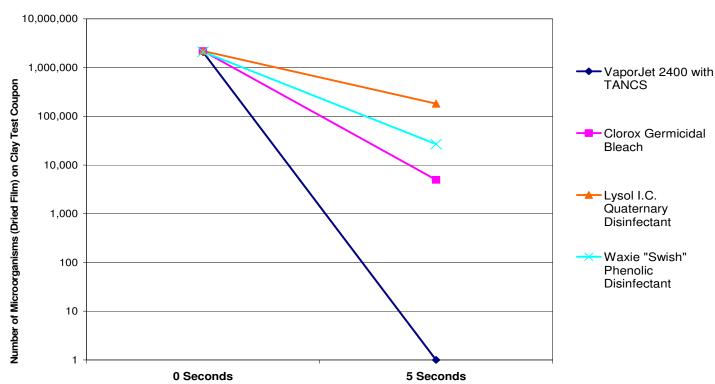
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#### **Additional Study Information**

#### Microorganism Levels on Test Surfaces at Zero and Five Seconds Contact\*



<sup>\*</sup> Average values from 6 tests, each done in duplicate for each of the 4 listed technologies, against S. aureus, S. enterica, P. aeruginosa, C. albicans, A. niger, and Bacteriophage MS2, as a dried film of microbes.