

TEST DATA

Rick Hoverson
Advanced Vapor Technologies, LLC
7719 230th Street SW
Edmonds, WA 98026
425-775-9000
E-Mail: vapor@advap.com

NELSON LAB NUMBER: 274841
SAMPLE ID: AVT 'Dry' Steam Vapor System,
2400 Series w/TANCS
TEST REQUESTED: Surface Disinfectant
Validation Test
DATE: 11 Nov 2004

Table 1 - Summary of Results

COUPON	Application	AVERAGE	AVERAGE	PERCENT	LOG ₁₀
SURFACE/ ORGANISM		CONTROL TITER (CFU)	RECOVERED (CFU)	REDUCTION (%)	REDUCTION
Tile <i>S. aureus</i>	1	2.5 x 10 ⁷	~2.8 x 10 ⁴	~99.89	~2.95
	2	2.5 x 10 ⁷	<1.0 x 10 ⁰	>99.999996	>7.40
	3	2.5 x 10 ⁷	<1.0 x 10 ⁰	>99.999996	>7.40
Tile <i>S. epidermidis</i>	1	1.1 x 10 ⁷	<1.0 x 10 ⁰	>99.999991	>7.04
	2	1.1 x 10 ⁷	<1.0 x 10 ⁰	>99.999991	>7.04
	3	1.1 x 10 ⁷	<1.0 x 10 ⁰	>99.999991	>7.04
Tile <i>P. aeruginosa</i>	1	1.8 x 10 ⁷	<1.0 x 10 ⁰	>99.999994	>7.26
	2	1.8 x 10 ⁷	<1.0 x 10 ⁰	>99.999994	>7.26
	3	1.8 x 10 ⁷	<1.0 x 10 ⁰	>99.999994	>7.26
Tile <i>S. choleraesuis</i>	1	1.4 x 10 ⁷	<1.0 x 10 ⁰	>99.999993	>7.15
	2	1.4 x 10 ⁷	<1.0 x 10 ⁰	>99.999993	>7.15
	3	1.4 x 10 ⁷	<1.0 x 10 ⁰	>99.999993	>7.15
Tile <i>E. coli</i>	1	1.8 x 10 ⁷	<1.0 x 10 ⁰	>99.999994	>7.26
	2	1.8 x 10 ⁷	~1.3 x 10 ¹	>99.999931	~6.16
	3	1.8 x 10 ⁷	<1.0 x 10 ⁰	>99.999994	>7.26
Tile <i>L. monocytogenes</i>	1	4.6 x 10 ⁶	~1.6 x 10 ¹	~99.999966	~5.47
	2	4.6 x 10 ⁶	~1.0 x 10 ⁰	~99.999978	~6.66
	3	4.6 x 10 ⁶	<3.5 x 10 ⁰	>99.999924	>6.12
Tile <i>E. faecium</i>	1	2.1 x 10 ⁷	<1.0 x 10 ⁰	99.999995	>7.32
	2	2.1 x 10 ⁷	<1.0 x 10 ⁰	99.999995	>7.32
	3	2.1 x 10 ⁷	<1.0 x 10 ⁰	99.999995	>7.32
Tile <i>C. albicans</i>	1	2.9 x 10 ⁷	~2.0 x 10 ⁰	>99.999993	~7.16
	2	2.9 x 10 ⁷	~2.0 x 10 ⁰	>99.999993	~7.16
	3	2.9 x 10 ⁷	<1.0 x 10 ⁰	>99.999997	>7.46
Tile <i>A. niger</i>	1	4.9 x 10 ⁵	<1.0 x 10 ⁰	>99.999980	>5.69
	2	4.9 x 10 ⁵	<1.0 x 10 ⁰	>99.999980	>5.69
	3	4.9 x 10 ⁵	<1.0 x 10 ⁰	>99.999980	>5.69
Tile <i>T. mentagrophytes</i>	1	1.8 x 10 ⁶	<1.0 x 10 ⁰	>99.999944	>6.26
	2	1.8 x 10 ⁶	<1.0 x 10 ⁰	>99.999944	>6.26
	3	1.8 x 10 ⁶	<1.0 x 10 ⁰	>99.999944	>6.26

Application 1 = Nozzle brush used with a towel placed over the brush.

The sample was exposed for 7 seconds.

Application 2 = Triangle Brush used with a towel placed over the brush.

The brush was scrubbed/rubbed back and forth on the sample for 10 seconds.

Application 3 = Tri-Brush used with the towel placed over the brush. The brush was scrubbed/rubbed over the sample for 30 seconds.

(~) values are approximated based on counts outside the range of 25-250 for bacteria or 8-80 for molds and fungi.

(>) Greater than values are where a <1 count/mL recovery per sample was found

(<) Less than values are where no colonies were found for a sample.

Test Coupons = unglazed, red clay, quarry tile