

**Efficacy Bulletin**  
**SANI-T-10<sup>®</sup>**

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EPA Reg. No. 5741-13

## SANITIZING ACTION OF DISINFECTANTS

Sani-T-10 at 0.25 oz. per 1 gallon of 750 ppm Hard Water, demonstrated a >99.999 percent reduction of *Staphylococcus aureus* and *Escherichia coli* at a 30 second exposure time at 25.0 degrees Celsius.

Organism	Exposure Time	Sample	Percent Reduction
<i>Escherichia coli</i>	30 Seconds	A	>99.999
		B	
		C	
<i>Staphylococcus aureus</i>	30 Seconds	A	>99.999
		B	
		C	

### Conclusion

Sani-T-10 demonstrated efficacy against *Staphylococcus aureus* and *Escherichia coli* for precleaned, nonporous food contact surfaces after a 30 second exposure time at 25.0 degrees Celsius as required by the U.S. EPA for sanitizer label claims.

### DISINFECTION DATA:

**Test Method:** AOAC Use Dilution

**Test Conditions:** 5% serum, 10 minute contact time, 750 ppm hard water, 20°C exposure temperature, 3/4 oz/gal dilution

### Results:

Test Organism	Sample	No. of Carriers		Phenol Resistance
		Exposed	Positive	
<i>Staphylococcus aureus</i>	A	60	0	1:60
	B	60	0	
	C	60	0	
<i>Pseudomonas aeruginosa</i>	A	30	0	1:80
	B	30	0	
	C	30	0	
<i>Salmonella enterica</i>	A	30	0	1:90
	B	30	0	
	C	30	0	

### Conclusion

Sani-T-10 demonstrated efficacy against *Staphylococcus aureus*, *Pseudomonas aeruginosa*, and *Salmonella enterica* after a 10 minute exposure time at 20.0 degrees Celsius as required by the U.S. EPA for disinfectant label claims.

## FUNGICIDAL ACTIVITY

Sani-T-10 at 2 oz. per 1 gallon of 750 ppm Hard Water, demonstrated fungicidal activity against *Trichophyton interdigitale* by the AOAC fungicidal Test.

Test Organism	Dilution	5 Minutes	10 Minutes	15 Minutes
<i>Trichophyton interdigitale</i>	1:64	+	-	-
	1:75	+	-	-
	1:80	+	-	-
	1:85	+	-	-

## Conclusion

Sani-T-10 demonstrated efficacy against *Trichophyton interdigitale* at 2 oz/gal by the AOAC fungicidal test.

## ALGICIDAL ACTIVITY

Sani-T-10 at 0.5 ppm, demonstrated efficacy against *Chlorella pyrenoidosa* and *Phormidium inundatum*

Test Organism days)	% Inhibition Growth in Subculture				
	Concentration ppm	Test 1 (11days)	Test 2 (7 days)	Test 1 (10 days)	Test 2 (60 days)
<i>Chlorella pyrenoidosa</i>	0.125	0	0	Good	Good
	0.25	100	90	Good	Good
	0.5	100	100	Good	None
	1.0	100	100	Good	None
	1.5	100	100	None	None
<i>Phormidium inundatum</i>	0.125	0	0	Good	Good
	0.25	0	50	Good	Good
	0.5	100	100	None	None
	1.0	100	100	None	None

## Conclusion

Sani-T-10 is an effective algicide at 0.5 ppm.

## VIRUCIDAL ACTIVITY

Sani-T-10 at 3/4 oz. per 1 gallon of 750 ppm Hard Water, demonstrated virucidal activity against Vaccinia, Influenza A<sub>2</sub> (England), Herpes Simplex, and Adenovirus type 5.

Virus	Dilution of virus-germicide/virus-saline Mixture	Control virus-saline	Test virus-germicide
Vaccinia Virus	10 <sup>1</sup>	++++	TTTT
	10 <sup>2</sup>	++++	0000
	10 <sup>3</sup>	++++	0000
	10 <sup>4</sup>	++++	0000
	10 <sup>5</sup>	++++	0000
	10 <sup>6</sup>	++++	0000
	10 <sup>7</sup>	0000	0000
	10 <sup>8</sup>	0000	0000
Influenza A <sub>2</sub> (England)	10 <sup>1</sup>	++++++	00000D
	10 <sup>2</sup>	+++++D	000000
	10 <sup>3</sup>	++++++	0000DD
	10 <sup>4</sup>	++++++	000000
	10 <sup>5</sup>	++++++	00000D
	10 <sup>6</sup>	++++++	000000
	10 <sup>7</sup>	0000	000000
	10 <sup>8</sup>	0000	000000
Herpes Simplex	10 <sup>1</sup>	++++	TTTT
	10 <sup>2</sup>	++++	0000
	10 <sup>3</sup>	++++	0000
	10 <sup>4</sup>	++++	0000
	10 <sup>5</sup>	++++	0000
	10 <sup>6</sup>	++++	0000
	10 <sup>7</sup>	0000	0000
	10 <sup>8</sup>	0000	0000
Adenovirus Type 5	10 <sup>1</sup>	++++	TTTT
	10 <sup>2</sup>	++++	++++
	10 <sup>3</sup>	++++	0000
	10 <sup>4</sup>	++++	0000
	10 <sup>5</sup>	++++	0000
	10 <sup>6</sup>	++++	0000
	10 <sup>7</sup>	0000	0000
	10 <sup>8</sup>	0000	0000

+ Virus present

D Eggs dead from non specific factors

0 Virus absent

T Toxicity due to germicide. Presence or absence of virus could not be determined.

### Conclusion

Sani-T-10 at 3/4 oz per 1 gallon demonstrated virucidal activity against Vaccinia, Influenza A<sub>2</sub> (England), Herpes Simplex, and Adenovirus type 5.