

# Guardian Hospital Room Test Results

As Performed by Louis Stokes VA Medical Hospital

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**VA**

**U.S. Department  
of Veterans Affairs**

Veterans Health  
Administration  
*VA Northeast Ohio  
Healthcare System*

# Method

- Device tested using a modification of ASTM E2197
- In brief, MRSA or *C. difficile* spores were resuspended in a simulated organic load suspension consisting of 20% Mucin, 7% yeast extract, and 5% bovine serum albumin
- 10ul of suspension spread over a 20mm steel disk and allowed to dry
- Test disks suspended parallel to the guardian lamps at a distance of 1, 2, and 3 meters for 5 or 10 minutes
- Organism recovered by elution and vortexing then serially diluted and plated
- Test disks compared against untreated control disks



Room setup

# MRSA results

	Log <sub>10</sub> CFU reduction		
Time	1 Meter	2 Meters	3 Meters
5 minutes	4.91	3.39	1.74
10 minutes	5.17	5.26	4.67

# C. difficile Results

	Log10 CFU reduction		
Time	1 Meter	2 Meters	3 Meters
5 minutes	2.65	2.02	2.04
10 minutes	2.80	2.22	2.21