ResInnova LABORATORIES

June 25, 2020

CLEANBOX H1N1 Antiviral Evaluation

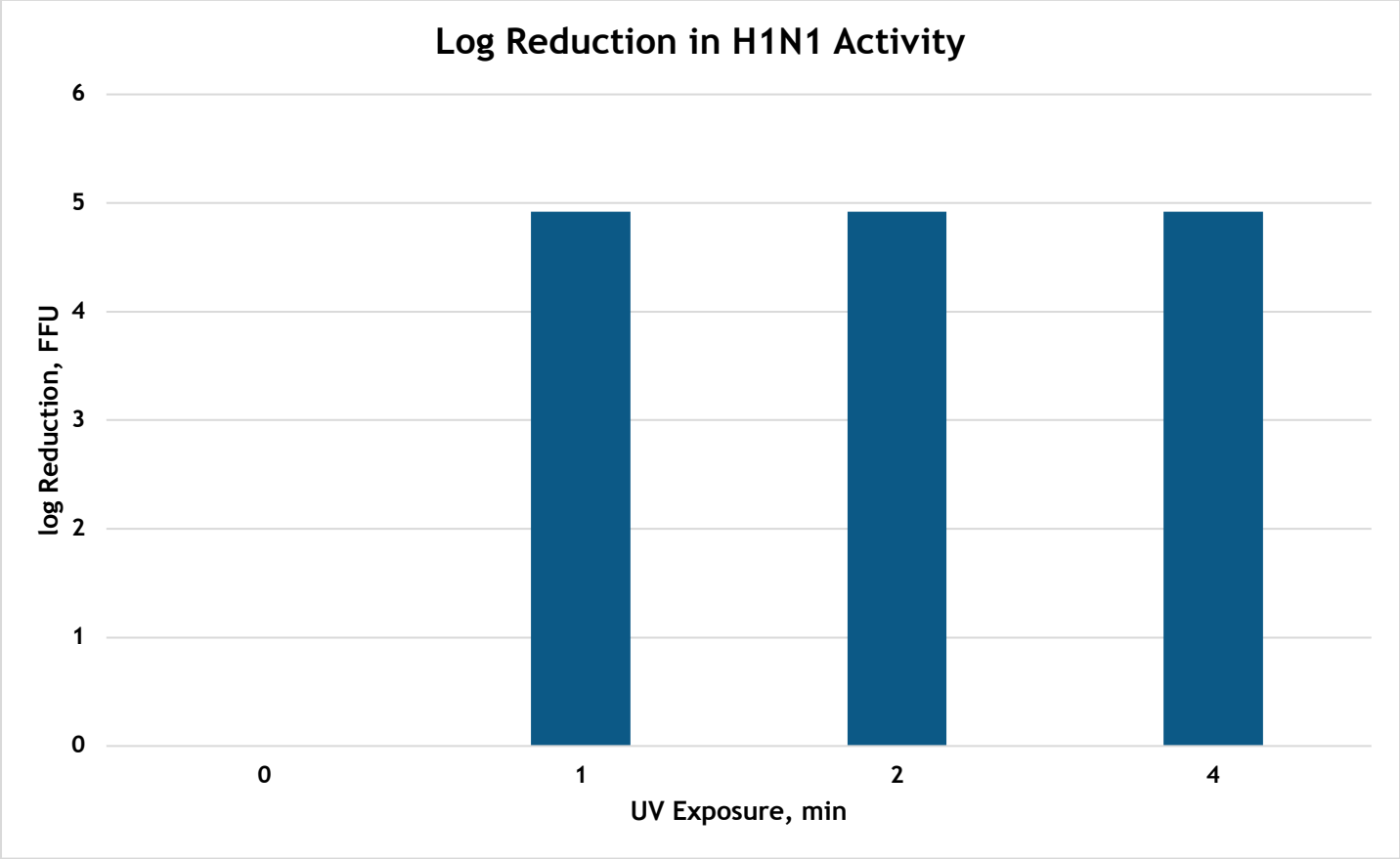
Test Method Summary

Test Method	Modified ASTM E2197
Test Organism	H1N1 human influenza A virus
Test Solution	Eagles Modified Medium with 2% Fetal Bovine Serum
Test Samples	20mm diameter N95 swatches (provided by CLEANBOX)
Inoculum Applied to N95 Swatches	0.010 mL applied to each disk and spread to within 1 mm of edges, then dried at room temperature.
Recovery Solution	Modified SDLP Buffer
Measuring Method of Number of Viable Viral Particles	Dilution Plate Method onto MDCK cells, viral particles were detected by. Presence of viral particles (foci) were determined using a monoclonal antibody. Foci were then counted giving Foci Forming Units (FFU).

Results Summary

Inoculated N95 swatches were placed inside the CLEANBOX test unit directly in the center of the pull-out tray. Swatches were then exposed to the ultraviolet light (UV) for either 0 (unexposed control), 1, 2, or 4 minutes.

Modified ASTM E2197: Standard Quantitative Disk Carrier Test Method				
Number of Replicate Experiments		1		
Average Control Recovery (FFU/mL)		$8.3 \pm 2.2 \times 10^4 = 4.92$ log		
Exposure (min)	**Average Virus Recovered (FFU/ml)**	**Average Log Recovery**	**Average Log Reduction (vs Control)**	**Average Percent Reduction (vs Control)**
0 (control)	$8.3 \pm 2.2 \times 10^4$	4.92		
1	0.0 ± 0.0	0.00	4.92	100%
2	0.0 ± 0.0	0.00	4.92	100%
4	0.0 ± 0.0	0.00	4.92	100%



ResInnova Laboratories
8807 Colesville Rd, 3rd Floor
Silver Spring, MD 20910

IAC International Antimicrobial Council Certified Laboratory