



MTL-ACTS

Technical Report #(5105)067-0023

March 10, 2005  
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**EXECUTIVE SUMMARY:**

Use studies on one (1) NU-TEMP PERSONAL GERM ELIMINATOR with a 3/16" opening using a 10 second exposure time at a distance of 1/2 inch.

**RESULTS:**

See Page Two.

**EXPERIMENTAL:**

Two(2) microscopic slides for each tested organism were inoculated with approx. 1,000,000 cfu of *E.coli*, with one slide used for the test and the other used as the baseline control. The slides were allowed to dry for 2 minutes. Once the drying time had elapsed, one of the slides was exposed to the UV unit at a measured distance of a 1/2 inch for 10 seconds. Immediately after the 10 second exposure time, the slide was placed in a sterile bag and the surface was washed with 10mL of Phosphate Buffer. This wash was plated out at multiple dilutions using trypticase soy agar to obtain a count of the remaining viable bacteria on the slide after exposure. The same procedure was used to obtain a count for the baseline control sample. The UV exposed slide counts were compared to the baseline count to give a percent kill.

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**Table 1: Data for % Kill Determination at 10 Second Exposure Time**

- UV light exposure time = 10 seconds at a distance of 1/2 inch

Organism	Slide #	Control Count (cfu/slide)	Remaining Organisms (cfu) after 10 Second Exposure	% Kill 10 Second Exposure
<i>E. coli</i>	1	1,100,000	900	> 99.9%

Organism	Slide #	Control Count (cfu/slide)	Remaining Organisms (cfu) after 10 Second Exposure	% Kill 10 Second Exposure
<i>Salmonella</i>	1	980,000	30	> 99.9%