



Ms. Cynthia Lang
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7305 Military Trail
West Palm Beach, Florida 33410

October 1, 2008

Re: Validation of Zimek's Dri-Mist Prophylaxis Treatment of an Anteroom at the Veteran's Medical Center, West Palm Beach, Florida

Dear Cindy,

On September 26, 2008 a prophylaxis treatment was performed by Zimek Corporation as a demonstration for the infection control staff at the Veteran's Administration Hospital in West Palm Beach, Florida. The treatment was performed in a ~350 square foot anteroom on the 4th floor of the hospital using a Zimek Dri-Mist System deploying a quaternary ammonium disinfectant (QD). As part of the demonstration, Hygiene Assurance Group of Stuart, Florida was asked to validate the efficacy of the prophylaxis treatment.

In order to validate the effectiveness of the treatment, a total of three (3) biological indicators (SGM Biotech) were placed around the room, in the areas to be treated. Each indicator had been inoculated with log 10⁵ of a highly resistant bacterial spore (*G. stearothermophilus*) that is harmless to humans and animals. **The ability of an anti-microbial treatment to retard or eliminate growth** of these bacteria within the indicator is accepted by EPA and FDA as proof that the treatment was effective against other less resistant organisms in the treated environment. Placing the biological indicators strategically in various places within the treated environment also serves to confirm that the disinfectant has been distributed effectively

A variation of this technique has been employed for many years by military organizations, to ensure decontamination of biological warfare agents. Additionally, it is currently used in healthcare facilities to assure sterility of surgical instruments and in pharmaceutical and food processing establishments to validate purity of product.

Following the treatment of the anteroom the indicators were harvested and shipped overnight to Hygiene Assurance Group. Each indicator plus an untreated control indicator were prepared and incubated at 55 degrees centigrade for 24 hours. Visual inspection of growth was performed on each indicator every hour for the first four hours and then every 5-10 minutes for the next three hours, again after 16 hours and finally after 24 hours. The results are shown in Table 1.

Table 1.

Sample #	Description	Grow out in hours
Untreated Control		4hrs 10 min
1	Dumbwaiter wall buttons	5 Hours 5 minutes
2	Wall mounted telephone	No Growth 24 Hours
3	Wall mounted light switch	5 hours 30 minutes

Sample # 2 achieved a 99.999% or 5 log kill of the bacterial spores.

If you have questions regarding this report please contact Charles Pearsall, Hygiene Assurance Group, email: cpearsall1@earthlink.net.

Respectfully submitted,

Charles "Dusty" Pearsall

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Cc: Mr. Wayne Lutz
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