THE PRELIMINARY RESULTS FROM YOUR EVALUATION OF ANTIMICROBIAL EFFECTIVENESS OF A PHOTOCATALYST DEVICE TEST THAT WAS PERFORMED BY AN INDEPENDENT ACCREDITED LAB ARE LISTED BELOW.

Test Unit: Air Reactor Model 110

Test Organism: Methicillin Resistant *Staphylococcus aureus* - *MRSA (ATCC 33592)*

Organism Dilution: *1:20*

Exposure Temperature: Room Temperature (21.71-22.12°C)

Soil Load: No soil load

Test Description: Test was performed in test room with dimensions 18' 8.5" x 16' 8" x 11' 9" (length x width x height), totally approximately 3663.7 feet^3. The device was turned on ~30 minutes prior to placing the carriers in the room. Inoculated and dried carriers, held in Petri dishes, were placed across from the test machine at a distance of approximately 8 feet and the dish lids were removed. The carriers were allowed to be exposed for 1, 2, and 5 hours. All controls were acceptable.

Carrier Population Control Results for MRSA:

1 hour = 6.7 x 10^4 CFU/carrier (4.83 log_{10})

2 hours = 5.9 x 10^4 CFU/carrier (4.77 log_{10})

5 hours = 8.2 x 10^4 CFU/carrier (4.91 log_{10})

Test Results for *MRSA:*

1 hour = 3.25 x 10^4 CFU/carrier = 51**.5% (2.34 *log_{10}*) reduction**

2 hours = 1.47 x 10^4 CFU/carrier = **75.1% (1.19 *log_{10}*) reduction**

5 hours = 0.11 x 10^4 CFU/carrier = **98.6% (0.07 *log_{10}*) reduction**

ANALYSIS: The Air Reactor, Model #110, provided by Hi Tech Air Solutions demonstrated a 98.6% reduction of Methicillin Resistant Staphylococcus aureus- MRSA after 5 hour exposure, a 75.1% reduction after 2 hours of exposure, and a 51.5% reduction after 1 hour of exposure.