

# Microorganism Efficacy Test

TEST SUBSTANCE EFFICACY RESULTS: THESE ARE THE RESULTS OF HOW THE PRODUCT PERFORMED AGAINST EACH TEST MICROORGANISM

| MICROORGANISM                                 | TIME POINT | % REDUCTION |
|-----------------------------------------------|------------|-------------|
| Acinetobacter baumannii<br>ATCC 19606         | 15 seconds | 100%        |
| Enterococcus faecalis<br>(VRE) ATCC 51299     | 15 seconds | 100%        |
| Listeria monocytogens<br>ATCC 15313           | 60 seconds | >99.96%     |
| Propionibacterium<br>Acnes ATCC 6916          | 60 seconds | >99.99%     |
| Candida albicans<br>ATCC 10231                | 60 seconds | >99.9999%   |
| Proteus mirabilis<br>ATCC 7002                | 15 seconds | >99.9999%   |
| Serratia marscesens<br>ATCC 14756             | 15 seconds | >99.9999%   |
| Staphylococcus aureus(MRSA)<br>ATCC 33592     | 15 seconds | >99.9999%   |
| E.Coli<br>ATCC 8739                           | 60 seconds | >99.9999%   |
| Pseudomonas aruginosa<br>ATCC 9027            | 60 seconds | >99.9999%   |
| S.aureus<br>ATCC 6538                         | 60 seconds | >99.9999%   |
| A brasiliensis<br>ATCC 16404                  | 60 seconds | >99.9999%   |
| K. pneumonia(CRE)<br>ATCC BAA-2146            | 60 seconds | >99.9994%   |
| C. Difficile<br>ATCC ATCC 43598               | 60 seconds | >99.9999%   |
| Human Coronavirus<br>Strain 229-E,ATCC VR-740 | 15 seconds | >99.82% *   |
| Adenovirus 2<br>ATCC VR-846                   | 60 seconds | >99.99%     |

All Microorganisms were killed in the 15 second contact time. 15 seconds was the quickest time to put neutralizing agents on test cultures.

\* This is the highest possible reduction due to laboratories cannot fully grow the virus.