

| <b>Disinfection</b>   | <b>Use Method</b>  | <b>Contact Time</b> | <b>Study Conclusion</b> |
|---|--------------------|---------------------|-------------------------|
| <b>Gram Negative Bacteria</b>                               |                    |                     |                         |
| Acinetobacter baumannii ATCC 19606                          | AOAC Use-Dilution  | 10 min.             | Disinfection            |
| Pseudomonas aeruginosa ATCC 15442                           | AOAC Use-Dilution  | 10 min.             | Disinfection            |
| Legionella pneumophila ATCC 33153                           | AOAC Use-Dilution  | 10 min.             | Disinfection            |
| Salmonella enterica ATCC 10708                              | AOAC Use-Dilution  | 10 min.             | Disinfection            |
| Klebsiella pneumoniae (NDM-1) ATCC BAA-2146                 | AOAC Use-Dilution  | 10 min.             | Disinfection            |
| Escherichia coli ATCC 11229                                 | AOAC Use-Dilution  | 10 min.             | Disinfection            |
| Bordetella bronchiseptica ATCC 10580                        | AOAC Use-Dilution  | 10 min.             | Disinfection            |
| Chlamydia psittaci, Strain 6BC, ATCCVR-125                  | AOAC Use-Dilution  | 10 min.             | Disinfection            |
| <b>Gram Positive Bacteria</b>                               |                    |                     |                         |
| Staphylococcus aureus MRSA ATCC 33592                       | AOAC Use-Dilution  | 10 min.             | Disinfection            |
| Staphylococcus aureus ATCC 6538                             | AOAC Use-Dilution  | 10 min.             | Disinfection            |
| Listeria monocytogenes ATCC 15313                           | AOAC Use-Dilution  | 10 min.             | Disinfection            |
| Mycobacterium bovis- BCG                                    | AOAC Use-Dilution  | 10 min.             | Disinfection            |
| Penicillin- Resistant Streptococcus pneumoniae, ATCC 700677 | AOAC Use-Dilution  | 10 min.             | Disinfection            |
| <b>Enveloped Viruses</b>                                    |                    |                     |                         |
| Swine Influenza (H1N1) Virus**                              | Virucidal Efficacy | 5 min.              | Complete inactivation   |
| Respiratory Syncytial Virus**                               | Virucidal Efficacy | 5 min.              | Complete inactivation   |
| Influenza B Virus**   | Virucidal Efficacy | 5 min.              | Complete inactivation   |

|   |                    |                     |                         |
|---|--------------------|---------------------|-------------------------|
| Hepatitis A Virus**   | Virucidal Efficacy | 5 min.              | Complete inactivation   |
| Hepatitis B Virus**   | Virucidal Efficacy | 5 min.              | Complete inactivation   |
| Hepatitis C Virus**   | Virucidal Efficacy | 5 min.              | Complete inactivation   |
| Human Immunodeficiency Virus (HIV Type 1)**                                   | Virucidal Efficacy | 5 min.              | Complete inactivation   |
| Hantavirus (Prospect Hill Virus) University of Ontario**                      | Virucidal Efficacy | 5 min.              | Complete inactivation   |
| Canine Distemper Virus, Strain Snyder Hill, ATCC VR**                         | Virucidal Efficacy | 5 min.              | Complete inactivation   |
| Felid Herpesvirus 1, Strain C-27, ATCC VR-636**                               | Virucidal Efficacy | 10 min.             | Complete inactivation   |
| Feline coronavirus, Strain WSU 79-1683, ATCC VR-989**                         | Virucidal Efficacy | 10 min.             | Complete inactivation   |
| Canine coronavirus, Strain 1-71, ATCC VR-809**                                | Virucidal Efficacy | 10 min.             | Complete inactivation   |
| Canine Influenza (H3N8) virus, Strain A/Ca/NY/105913/08, Cornell University** | Virucidal Efficacy | 10 min.             | Complete inactivation   |
| Feline Infectious Peritonitis Virus, Strain: WSU 79, ATCC VR-990**            | Virucidal Efficacy | 10 min.             | Complete inactivation   |
| Rabies Virus, Strain: Flury (HEP), ATCC VR-139**                              | Virucidal Efficacy | 10 min.             | Complete inactivation   |
| Herpes Simplex Virus 1 (Human), Strain HF, ATCC VR-260**                      | Virucidal Efficacy | 10 min.             | Complete inactivation   |
| Porcine Epidemic Diarrhea Virus, Strain CO 2013, USDA APHIS 025-PDV001        | Virucidal Efficacy | 10 min.             | Complete inactivation   |
| Herpes Simplex Virus 1 (Human), Strain HF, ATCC VR-260**                      | Virucidal Efficacy | 10 min.             | Complete inactivation   |
| <b>Non-Enveloped Viruses</b>  | <b>Use Method</b>  | <b>Contact Time</b> | <b>Study Conclusion</b> |
| Rotavirus**   | Virucidal Efficacy | 5 min.              | Complete inactivation   |
| Norovirus Feline Calicivirus**  | Virucidal Efficacy | 5 min.              | Complete inactivation   |
| Murine Norovirus (MNV-1)**  | Virucidal Efficacy | 5 min.              | Complete inactivation   |
| Adenovirus 1, Strain Adenoid 71, ATCC VR-1**                                  | Virucidal Efficacy | 10 min.             | Complete inactivation   |
| Canine Parvovirus, Strain Cornell-780916, ATCC VR-2016**                      | Virucidal Efficacy | 10 min.             | Complete inactivation   |
| Canine adenovirus 1, Strain Utrecht, ATCC VR-293**                            | Virucidal Efficacy | 10 min.             | Complete inactivation   |

|  |                                |                     |                                 |
|--|--------------------------------|---------------------|---------------------------------|
| Feline panleukopenia virus, Strain Philips-Roxane, ATCC VR-648** | Virucidal Efficacy             | 10 min.             | Complete inactivation           |
| <b>Food Contact Sanitizer Dilution Rate: 9:1</b>                 | <b>Use Method</b>              | <b>Contact Time</b> | <b>Study Conclusion</b>         |
| Escherichia coli ATCC 11229                                      | AOAC Food Contact Sanitization | 60 sec.             | 99,999 Kill (no rinse required) |
| Staphylococcus aureus ATCC 33592                                 | AOAC Food Contact Sanitization | 60 sec.             | 99,999 Kill (no rinse required) |
| <b>Carpet Sanitizer Dilution Rate: 5:1</b>                       | <b>Use Method</b>              | <b>Contact Time</b> | <b>Study Conclusion</b>         |
| Staphylococcus aureus ATCC 6538                                  | DIS/TSS-8 Carpet Sanitizer     | 60 min.             | 99.9 Carpet Sanitizer           |
| Enterobacter aerogenes ATCC 13048                                | DIS/TSS-8 Carpet Sanitizer     | 60 min.             | 99.9 Carpet Sanitizer           |
| <b>Soft Surface Sanitizer</b>                                    | <b>Use Method</b>              | <b>Contact Time</b> | <b>Study Conclusion</b>         |
| Staphylococcus aureus ATCC 6538                                  | Soft Surface Sanitization      | 5 min.              | Sanitization                    |
| Enterobacter aerogenes ATCC 13048                                | Soft Surface Sanitization      | 5 min.              | Sanitization                    |
| <b>Fungi on Surface</b>  | <b>Use Method</b>              | <b>Contact Time</b> | <b>Study Conclusion</b>         |
| Aspergillus niger ATCC 6275                                      | Mildewstat                     | 10 min.             | > 4 weeks protection            |
| Trichophyton rubrum ATCC MYA                                     | Fungicide                      | 10 min.             | No germination of spores        |
| Trichophyton mentagrophytes ATCC 9533                            | Fungicide                      | 10 min.             | No germination of spores        |

### Not EPA approved organisms

|                        |                      |         |                          |
|------------------------|----------------------|---------|--------------------------|
| Stachybotrus Chartarum | Sporicidal Viability | 10 min. | No germination of spores |
| Aspergillus Fumigatus  | Sporicidal Viability | 10 min. | No germination of spores |
| Alternaria Alternata   | Sporicidal Viability | 10 min. | No germination of spores |
| Penicillium sp         | Sporicidal Viability | 10 min. | No germination of spores |