



## Representative Microorganisms Tested: A Partial Compendium

Microbe Busters offers unique antimicrobial technology that effectively controls a broad spectrum of bacteria, fungi, algae and yeast on a wide variety of treated substrates. The antimicrobial ingredient is registered with the U.S. Environmental Protection Agency (EPA) and comparable regulatory bodies around the world. It has been used safely and effectively since 1976.

This sheet has been prepared in response to numerous requests for a list of microorganisms against which the technology is effective. The list shows specific organisms which have been tested against the technology. They were selected to provide a test spectrum which is representative of all significant types and varieties of microorganisms.

These data points are provided solely to assist you in understanding the capabilities of the technology and are not a warranty. Laboratory testing is performed in a controlled environment and may or may not be representative of real world conditions. Effectiveness against an organism should not be interpreted as eliminating, controlling, minimizing or otherwise affecting health conditions which may be associated with specific organisms.

### **Bacteria**

*Micrococcus sp.*

*Staphylococcus epidermidis*<sup>1</sup>

*Enterobacter agglomerans*<sup>1</sup>

*Acinetobacter calcoaceticus*<sup>1</sup>

*Staphylococcus aureus (pigmented)*<sup>1</sup>

*Staphylococcus aureus (non-pigmented)*<sup>1</sup>

*Klebsiella pneumoniae*

*Pseudomonas aeruginosa*

*Pseudomonas aeruginosa*<sup>1</sup>

*Pseudomonas aeruginosa*

*Streptococcus faecalis*

*Escherichia coli*

*Escherichia coli*<sup>1</sup>

*Proteus mirabilis*

*Proteus mirabilis*<sup>1</sup>

*Citrobacter diversus*<sup>1</sup>

*Salmonella typhosa*

*Salmonella choleraesuis*

*Corynebacterium bovis*

*Mycobacterium smegmatis*

*Mycobacterium tuberculosis*

*Brucella canis*

*Brucella abortus*

*Brucella suis*

*Streptococcus mutans*

*Bacillus subtilis*

*Bacillus cereus*

*Clostridium perfringens*

*Haemophilus influenzae*

*Haemophilus suis*

*Lactobacillus casei*

*Leuconostoc lactis*

*Listeria monocytogenes*

*Propionibacterium acnes*

*Proteus vulgaris*

*Pseudomonas cepacia*

*Pseudomonas fluorescens*

*Xanthomonas campestris*

### **Fungi**

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<sup>1</sup> Clinical isolates



8170 N. McCormick Blvd., Ste 210  
Skokie, IL 60076  
(847) 677-8500  
www.microbepusters.com

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*Aspergillus niger*  
*Aspergillus fumigatus*  
*Aspergillus versicolor*  
*Aspergillus flavus*  
*Aspergillus terreus*  
*Penicillium chrysogenum*  
*Penicillium albicans*  
*Penicillium citrinum*  
*Penicillium elegans*  
*Penicillium funiculosum*  
*Penicillium humicola*  
*Penicillium notatum*  
*Penicillium variable*

*Mucor sp.*  
*Tricophyton mentagrophytes*  
*Tricophyton interdigitalie*  
*Trichoderma flavus*  
*Chaetomium globosum*  
*Rhizopus nigricans*  
*Cladosporium herbarum*  
*Aerobasidium pullulans*  
*Fusarium nigrum*  
*Fusarium solani*  
*Gliocladium roseum*  
*Oospora lactis*  
*Stachybotrys atra*

### **Algae**

*Oscillatoria borneti*  
*Anabaena cylindrical*  
*Selenastrum gracile*  
*Pleurococcus sp.*

*Schenedesmus quadricauda*  
*Gonium sp.*  
*Volvox sp.*  
*Chlorella vulgarus*

### **Yeast**

*Saccharomyces cerevisiae*

*Candida albicans*

**Interpretive Note:** Although a list of microorganisms against which a biocide has been shown to be effective is important for determining whether or not it may be used against specific types of organisms, it is only the starting point. Killing or controlling microorganisms (particularly in laboratory tests of the active ingredient) is relatively easy. Safety to man and the environment, cost effective use in real world situations, avoidance of the creation of resistant organisms, long term efficacy, potential damage to treated surfaces, and many other factors are normally much more important. Finally, the use of biocides is strictly regulated in the United States. Biocides must be used in strict accordance with EPA accepted handling and use instructions and only for those end uses included in EPA accepted labeling. Misuse of a biocide may be dangerous. It is also illegal.