



**Environmental Solutions
by Zingones, LLC**
www.stopZmold.com

Frank J. Zingone
Melanie Slater

Serving Grove City, Pa, Vero Beach, Fl,
and Surrounding Areas

mPale Antimicrobial with AEGIS Microbe Shield Technology Representative Microorganisms Tested: A Partial Compendium

The mPale Microbe Shield Program is based on a unique antimicrobial technology which 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.

The antimicrobial 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 the specific organisms.

Bacteria

Micrococcus sp.

*Staphylococcus epidermidis*¹

*Enterobacter agglomerans*¹

*Acinetobacter calcoaceticus*¹

*Staphylococcus aureus (pigmented)*¹

*Staphylococcus aureus (non-pigmented)*¹

Klebsiella pneumoniae

Pseudomonas aeruginosa

*Pseudomonas aeruginosa*¹

Pseudomonas aeruginosa

Streptococcus faecalis

Escherichia coli

*Escherichia coli*¹

Proteus mirabilis

*Proteus mirabilis*¹

*Citrobacter diversus*¹

Salmonella typhosa

Salmonella choleraesuis

Corynebacterium bovis

Mycobacterium smegmatis

Mycobacterium tuberculosis

Brucella cania

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



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Fungi

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 interdigitalis
Trichoderma flavus
Chaetomium globosum
Rhizopus nigricans
Cladosporium
herbarum *Aerobasidium*
pullulans *Fusarium*
nigrum *Fusarium solani*
Gliocladium roseum
Oospora lactis
Stachybotrys atra

Algae

Oscillatoria borneti
Anabaena cylindrica
Selenastrum gracile
Pleurococcus sp.

Schenedesmus quadricauda
Gonium sp.
Volvox sp.
Chlorella vulgaris

Yeast

Saccharomyces cerevisiae

Candida albicans

1. Clinical Isolates

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.

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