

BioZone Technology Independently Tested & Proven

BioZone Kills Bacteria!

BioZone technology eliminates bacteria in air and on surfaces and continues working to prevent future infestations.

List of bacteria eliminated with BioZone's technology*

Aeromonas hydrophila	Citrobacter freundii	Legionella pneumophila	Pseudomonas aeruginosa	Staphylococcus aureus
Aeromonas salmonicida	Clavibacter michiganense	Leptospiracanicola	Pseudomonas fluorescens	Staphylococcus hemolyticus
Agrobacterium tumefaciens	Clostridium botulinum	Listeria monocytogenes	Pseudomonas stutzeri	Staphylococcus lactis
Bacillus anthracis - Anthrax and spores	Clostridium tetani	Micrococcus candidus	RB2256	Streptococcus faecalis
Bacillus magaterium sp. (spores)	Corynebacterium diphtheriae	Micrococcus sphaeroides	Rhodospirillum rubrum	Streptococcus viridans
Bacillus magaterium sp. (veg.)	Ebertelia typhosa	Mycobacterium avium	Salmonella spp	Typhus abdominalis
Bacillus paratyphus	Escherichia coli	Mycobacterium fortitum	Shigella flexneri - Dysentery	Vibrio anguillarum
Bacillus subtilis spores	Halobacterium elongata	Mycobacterium tuberculosis	Shigella paradysenteriae	Vibrio cholerae - Cholera
Bacillus subtilis	Halobacterium salinarum	Neisseria catarrhalis	Shigella sonnei	Vibrio natriegens
Campylobacter jejuni	Klebsiella pneumoniae	Phytomonas tumefaciens	Spirillum rubrum	Yersinia enterocolitica
Citrobacter diversus	Klebsiella terrigena	Proteus vulgaris	Staphylococcus albus	Yersinia ruckeri

*list not exhaustive, but rather represents commonly occurring bacteria

BioZone Kills Viruses!

BioZone technology deactivates viral DNA and RNA, effectively killing highly pathogenic viruses and more.

List of viruses, fungi, and protozoans eliminated with BioZone's technology*

Viruses

B40-8 phage	Echovirus I	PHI X 174 phage
H5N1 (Influenza A)	Echovirus II	Poliovirus type 1
hPIV-3 (Parainfluenza virus)	Echovirus 29	Poliovirus type Mahoney
Adenovirus type 2	Encephalomyocarditis virus	PRD-1 phage
Adenovirus type 15	Enteric virus	Reovirus type 1
Adenovirus type 40	Enterovirus	Reovirus type 3
Adenovirus type 41	GDVII	Rhabdovirus
Calicivirus canine	Hepatitis A	Rotavirus SA-11
Calicivirus feline	Herpes Virus	Stomatitis
Coxsackievirus A9	HIV	Tobacco mosaic
Coxsackievirus B3	Influenza Virus	Variola virus (smallpox)
Coxsackievirus B5	MS2 phage	Vesicular virus

Fungi and Protozoans

Alternaria solani	Cryptosporidium hominis	Oospora lactis
Aspergillus flavus	Cryptosporidium parvum	Paramonium
Aspergillus glaucus	Encephalitozoon cuniculi	Penicillium expansum
Aspergillus niger	Encephalitozoon hellem	Penicillium digitatum
Aspergillus oryzae	Encephalitozoon intestinalis	Penicillium roqueforti
Aspergillus saitoi	Endamoebic cysts	Phytophthora parasitica
Aspergillus terreus	Fusarium oxysporum	Rhizopus nigricans
Basidiomycetes	Giardia lamblia	Saccharomyces cerevisiae
Botrytis allii	Giardia muris	Saccharomyces ellipsoideus
Botrytis cinerea	Mucor racemosus A	Saccharomyces spores
Candida	Mucor racemosus B	Schistosoma
Chlorella vulgaris	Mucor piriformis	Saccharomyces spores
Cladosporium	Nematodes	Verticillium albo-atrum
		Verticillium dahliae

*list not exhaustive, but rather represents commonly occurring viruses, fungi, and protozoans

BioZone Kills Chemicals!

BioZone technology effectively eliminates airborne odors, compounds, and particles without chemicals or filters.

List of chemicals broken down with BioZone's technology*

(E)-2-butene-1-thiol	Body Odor	Cyclohexane
3-methyl-1-butanethiol	Bromochloromethane	Dibutyl phthalate
2-quinolinemethanethiol	Butane	Dichlorobenzene
Acetic Acid	Butoxythanol	Dimethyl Sulfide
Acetone	Butyl Mercaptan	Dinitrogen Trioxide
Acrylic Acid	Camphor	Dinitrogen Tetroxide
Ammonia	Carbon Monoxide	Egg Odor
Ammonium Persulfate	Carbon Disulfide	Ethanol
Atrazine	Cetyl Alcohol	Ethnic Food Odor
Bacon Odor	Cheese Odor	Ethylene
Benzene	Chlorinated hydrocarbons	Ethylbenzene
Benzidine	Chloroform	Ferrous Iron
Benzyl Alcohol	Cilantro Odor	Fluorene
Biphenyl	Curry Odor	Formaldehyde
Biphenyl Sulfide	Cyanide	Fried Food Odor

Garlic Odor	Mythelacrylic Acid	Pesticides
Glycerol	n-Butyl Acetate	Phenol
Ham Odor	Nicotene	Polychlorinated biphenyl
Hexane	Nitrite	Propane
Hydraquinone	Nitrogen Dioxide	Propylene Glycol
Hydrocarbons	Nitrous oxide	Quinone
Hydrogen Cyanide	Nitrosylazide	Roast Odor
Hydrogen Sulfide	Nitrate Radical	Styrene
Isopropyl Alcohol	Non-Ionic Detergents	Skunk Odor
Liquefied Petroleum Gas	Octane	Sulfur Dioxide
Manganese (Soluble)	Organic Compounds	Tricresyl Phosphate
Methane	Organobromides	Trimethylamine
Methanol	Organochlorides	Trinitramide
Methyl-Ethyl Ketone	Organofluorides	Toluene
Methyl Mercaptan	Organiodide	Urethane
Mineral Spirits	Ozone	Volatile Organic Compounds (VOCs)
Mustard gas	Para-Phenylenediamine	Xylene

*list not exhaustive, but rather represents commonly occurring chemicals and substances

BioZone technology provides serious solutions for serious problems, even in the harshest environments.
BioZone is the answer for powerful, chemical and battery free purification of air, surfaces, and water.

Independent testing proves BioZone is effective

AirCare Kills Viruses!

BioZone technology deactivates viral DNA and RNA, effectively killing highly pathogenic viruses.

Lab test conducted by:



a World Health Organization
(WHO) collaborative center

Avian Influenza Virus (H5N2)

99.9998% of the virus was destroyed in less than 0.44 seconds

Human Parainfluenza Virus (hPIV-3)

99.999% of the virus was destroyed in less than 0.44 seconds

AirCare Kills Bacteria!

BioZone technology has the capability to reduce the microbial burden of the air in a room.

Real environment test conducted by:



University College Dublin

70% reduction of micro-organisms in air samples taken from a seminar room after a lecture had been held there. The reduction was maintained during long-continued use of the device in that room.

BioZone methods act against an increase of microbial contamination, even with the introduction of polluted outside air and movement of personnel around the room, by sterilizing the air it treats.

AirCare Kills Odors!

BioZone technology is effective in air quality improvement by eliminating airborne microbes, particles and odors.

CASE STUDY: Air quality testing was conducted by a third-party research agency (SARL AFR) for a private hospital and a residential care home in France. Samples were analyzed by an independent laboratory (Clean Concepts Measurements).

AREAS TESTED:

Private Hospital

- Endoscopy Ward
- Small Surgery Ward
- Reception Hall Toilet
- Intensive Care Unit

Residential Care Home

- First Floor Corridor
- Patient's Room

During only the second week of testing:

- Greater than 70% reduction of airborne bacteria
- 68% reduction of yeast and mold
- 100% improvement of air quality
- 100% improvement of odor
- Greater than 79% feeling of purity

The patented, cutting-edge technology used by BioZone produces less ozone than nature itself.
BioZone products are compliant with the most strict ozone safety standards in the world.

Independent testing proves BioZone is effective

AirCare Kills Odors!

BioZone technology is effective in air quality improvement by eliminating airborne microbes, particles and odors.

Real environment test conducted by:



Shenzhen Academy of Metrology
and Quality Inspection

Hydrogen Sulfide (H₂S)

100% reduction of airborne concentration in less than 60 minutes (7ppm to 0ppm)

H₂S is a malodorous, very poisonous gas which results from the bacterial breakdown of organic matter

AirCare Improves the Air!

BioZone technology is effective in air quality improvement by eliminating airborne microcontaminants.

Real environment test conducted by:



LAWN
Environmental Protection Ltd.

Airborne Bacteria

98.24% average reduction of airborne bacteria across several installations

BioZone methods act against an increase of microbial contamination, even with the introduction of outside pollution and movement of personnel around the room, by sterilizing the surfaces it treats

AirCare Kills Bacteria!

BioZone technology has the capability to reduce the microbial burden of the surfaces in a room.

Lab test conducted by:



Pennsylvania State University

Escherichia coli (E. coli)

99.999% reduction of surface E. coli in less than 2 minutes

Listeria monocytogenes

99.999% reduction of surface Listeria in less than 2 minutes

Salmonella

100% reduction of surface Salmonella in less than 24 hours

**Tri-Tech Analytical
Laboratories, Inc.**

a US EPA and US FDA testing facility

BioZone methods act against an increase of microbial contamination, even with the introduction of outside pollution and movement of personnel

The patented, advanced technology used by BioZone is used daily in tens of thousands of sites.
BioZone products are certified to rigorous safety standards by multiple third parties.

MICROBE SURVIVAL TIMES @ 99% DISINFECTION RATE

Microbe	Type	k value (m ² /J)	Max Survival (minutes)	Mean Survival (minutes)	Min Survival (minutes)
Bacillus anthracis (spores)	Bacterium	0.0287	0.89	0.20	0.12
Clostridium tetani	Bacterium	0.0470	0.54	0.12	0.07
Corynebacterium diphtheriae	Bacterium	0.0701	0.36	0.08	0.05
Coxiella burnetii	Bacterium	0.1535	0.17	0.04	0.02
Enterobacter cloacae	Bacterium	0.0360	0.71	0.16	0.09
Escherichia coli	Bacterium	0.1561	0.16	0.04	0.02
Haemophilus influenzae	Bacterium	0.0599	0.43	0.10	0.06
Klebsiella pneumoniae	Bacterium	0.0548	0.47	0.11	0.06
Legionella pneumophila	Bacterium	0.4461	0.06	0.01	0.01
Listeria monocytogenes	Bacterium	0.2303	0.11	0.03	0.01
Methicillin-resistant Staphylococcus aureus (MRSA)	Bacterium	0.0853	0.30	0.07	0.04
Micrococcus candidus	Bacterium	0.0381	0.67	0.15	0.09
Mycobacterium tuberculosis	Bacterium	0.3300	0.08	0.02	0.01
Pseudomonas aeruginosa	Bacterium	0.5721	0.04	0.01	0.01
Pseudomonas putrefaciens	Bacterium	0.0266	0.96	0.22	0.12
Rickettsia prowazekii	Bacterium	0.0292	0.87	0.20	0.11
Staphylococcus albus	Bacterium	0.1251	0.20	0.05	0.03
Streptococcus faecalis	Bacterium	0.0627	0.41	0.09	0.05
Vancomycin-resistant Enterococci (VRE)	Bacterium	0.0822	0.31	0.07	0.04
Aspergillus niger	Fungus	0.0073	3.49	0.79	0.45
Blastomyces dermatitidis (vegetative)	Fungus	0.0164	1.55	0.35	0.20
Candida albicans (yeast)	Fungus	0.0031	8.31	1.89	1.08
Cladosporium herbarum	Fungus	0.0046	5.54	1.26	0.72
Cryptococcus neoformans (yeast)	Fungus	0.0082	3.10	0.70	0.40
Fusarium solani	Fungus	0.0073	3.47	0.79	0.45
Mucor racemosus	Fungus	0.0135	1.88	0.43	0.25
Penicillium chrysogenum	Fungus	0.0014	18.23	4.14	2.37
Rhizopus nigricans	Fungus	0.0285	0.90	0.20	0.12
Rhodotorula spp. (yeast)	Fungus	0.0021	12.42	2.82	1.62
Sporotrichum schenkii (yeast)	Fungus	0.0082	3.10	0.70	0.40
Trichophyton rubrum (vegetative)	Fungus	0.0041	6.21	1.41	0.81
Adenovirus	Virus	0.0550	0.46	0.11	0.06
Chikungunya	Virus	0.0763	0.33	0.08	0.04
Coronavirus (MERS, SARS)	Virus	0.0100	2.55	0.58	0.33
Coxsackievirus	Virus	0.1110	0.23	0.05	0.03
Dengue Fever Types 1-4	Virus	0.0946	0.27	0.06	0.04
Ebola (Reston, Sudan, Zaire)	Virus	0.0867	0.29	0.07	0.04
Influenza A virus	Virus	0.1190	0.21	0.05	0.03
Norovirus	Virus	0.0304	0.84	0.19	0.11
Parvovirus (Bovine)	Virus	0.0658	0.39	0.09	0.05
Smallpox	Virus	0.1202	0.21	0.05	0.03
Vaccinia virus	Virus	0.3489	0.07	0.02	0.01
Varicella-zoster virus	Virus	0.0586	0.44	0.10	0.06
Yellow Fever	Virus	0.0860	0.30	0.07	0.04