



# SANZONATE™

## PATHOGEN INACTIVATION CHART

*Laboratory testing of Sanzonate's Nanobubble Aqueous Ozone (NAO) demonstrating its effectiveness against potentially harmful microorganisms.*

Sanzonate's family of Aqueous Ozone products are Registered with and Regulated by the EPA as pesticidal devices manufactured at EPA establishment numbers 102637-NE and 089373-MA.

Aqueous Ozone is recognized by the EPA, FDA, USDA, is considered Generally Recognized as Safe (GRAS) as a food additive by the FDA, and is compliant with the EPA Organic Program as a natural and effective cleaner and sanitizer. It's also Green Seal and Clean Seal approved. Sanzonate AO products have earned CE and UKCA Certification in the European Economic Area, as well as membership in the EUO<sub>3</sub>TA as a company complying with the Biocidal Products Regulation.

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## Key Pathogen Inactivation Results

**Escherichia Coli (E.coli)**  
 Type: Bacteria  
 Reduction: >99.999%  
 Exposure: 30 secs

**Staphylococcus Aureus (Staph)**  
 Type: Bacteria  
 Reduction: >99.999%  
 Exposure: 30 secs

**Enterococcus Hirae**  
 Type: Bacteria  
 Reduction: >99.999%  
 Exposure: 30 secs

**Listeria Monocytogenes**  
 Type: Bacteria  
 Reduction: >99.999%  
 Exposure: 30 secs

**Salmonella Typhimurium**  
 Type: Bacteria  
 Reduction: >99.9%  
 Exposure: 30 secs

**Proteus Mirabillis**  
 Type: Bacteria  
 Causing Odor  
 Reduction: >99%  
 Exposure: 30 secs

**Candida Albicans**  
 Type: Yeast  
 Reduction: >99.9%  
 Exposure: 30 secs

**Aspergillus Niger**  
 Type: Mold  
 Reduction: >99.9%  
 Exposure: 30 secs

**Trichophyton Mentagrophytes**  
 Type: Fungi  
 Reduction: >99.99999%  
 Exposure: 30 secs

**Coronavirus SARS-CoV-2**  
 Type: Enveloped Virus  
 Reduction: >99.9%  
 Exposure: 30 secs

**Influenza A Virus (H1N1)**  
 Type: Enveloped Virus  
 Reduction: >99.99%  
 Exposure: 1 min

**Syncytial Respiratory Virus (SRV)**  
 Type: Enveloped Virus  
 Reduction: >99.99%  
 Exposure: 1 min

## OTHER INACTIVATION RESULTS

Microorganism	Type	Reduction	Exposure
Enterococcus Faecalis	Bacteria	>99.99999%	3 mins
Pseudomonas Aeruginosa	Bacteria	>99.999%	1 min
Salmonella Choleraesuis	Bacteria	>99.99999%	3 mins
Clostridium Difficile	Bacteria	>99.99999%	3 mins
Bacteriophage f2	RNA Virus	>99.99999%	30 secs
Rotovirus	RNA Virus	>99.99%	30 secs
Norovirus	RNA Virus	>99.9%	30 secs
Enteric Adenovirus	DNA Virus	>99.9%	30 secs
Hepatitis A	RNA Virus	>99.999%	30 secs

Microorganism	Type	Reduction	Exposure
Poliovirus (WPV1)	RNA Virus	>99.99999%	1 min
Coronavirus MHV-3 (Murine Hepatitis Virus)	Enveloped Virus	>99.99%	1 min
Measles Virus	Enveloped Virus	>99.99%	1 min
Vaccinia	Enveloped Virus	>99.9%	5 mins
Canine Parvovirus	Non-Enveloped Virus	>99.44%	5 mins
Feline Calicivirus	Non-Enveloped Virus	>99.99%	15 secs
Porcine Epidemic Diarrhea virus (PEDv)	Enveloped Virus	>99.99%	1 min
Porcine Reproductive & Respiratory Syndrome Virus	Enveloped Virus	>99.9%	1 min
African Swine Fever Virus (ASFV)	Enveloped Virus	>99%	1 min

\*Average levels of Ozone concentrations for testing purposes are 1.5 ppm or less.

# SANZONATE™

AQUEOUS OZONE ON DEMAND

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