

AQUEOUS OZONE PATHOGEN SUMMARY*

<u>MICROORGANISM</u>	<u>GROUP</u>		<u>STANDARD</u>	<u>REDUCTION</u>
Escherichia coli (E.coli)	ATCC 11 229	Bacteria	AOAC 960.09	> 99.999%
Staphylococcus aureus (Staph)	ATCC 6 538	Bacteria	AOAC 960.09	> 99.999%
Listeria monocytogenes	ATCC 19 115	Bacteria	AOAC 960.09	> 99.999%
Escherichia coli (E.coli)	ATCC 11 229	Bacteria	ASTM E1153	> 99.9%
Salmonella	ATCC 1 428	Bacteria	ASTM E1153	> 99.9%
Enterococcus hirae	ATCC 10 541	Bacteria	BS EN 13697:2015	> 99.99%
Escherichia coli (E. coli)	ATCC 10 536	Bacteria	BS EN 13697:2015	> 99.99%
Pseudomonas aeruginosa	ATCC 15 442	Bacteria	BS EN 13697:2015	> 99.99%
Staphylococcus aureus (Staph)	ATCC 6 538	Bacteria	BS EN 13697:2015	> 99.99%
Candida albicans	ATCC 10 231	Yeast	BS EN 13697:2015	> 99.9%
Aspergillus niger (A. niger)	ATCC 16 404	Mold	BS EN 13697:2015	> 99.9%
Enterococcus hirae	ATCC 10 541	Bacteria	EN 1276	>99.999%
Escherichia coli (E. coli)	ATCC 10 536	Bacteria	EN 1276	> 99.999%
Pseudomonas aeruginosa	ATCC 15 442	Bacteria	EN 1276	>99.999%
Staphylococcus aureus (Staph)	ATCC 6 538	Bacteria	EN 1276	> 99.999%
Proteus mirabilis	ATCC 7002	Bacteria	Sanitizer Method	>99%
Escherichia coli (E.coli) Wash Test	ATCC 11 229	Bacteria	Antibacterial	> 99.99%
Listeria monocytogenes Wash Test	ATCC 19 111	Bacteria	Antibacterial	> 99.99%
Escherichia coli (S. choleraesuis)	ATCC 10 708	Bacteria	Antibacterial Wash Test	> 99.99%

**Reduction rates vary with temperature, surface texture, pH and other factors.*

**TESTING RESULTS BELOW SPONSORED
BY THIRD PARTY ORGANIZATIONS**

Results of Aqueous Ozone Tested for Use as a Sanitizer on Non-Porous Surfaces

<u>MICROBE</u>	<u>REDUCTION</u>	<u>REPORTING ORGANIZATION</u>
Bacteriophage F2	99.9999%	Journal of Food Sciences
E. faecalis	99.9%	American Society for Microbiology
Mycobacterium avium	99.9%	Virginia Tech
Hepatitis A	99%	University of Tennessee
Rotavirus (HRV)	99.9%	Applied and Environmental Micro
Trichophyton	99.9999%	Water Quality Products, Inc.
Enteric Adenovirus	99.9%	Elsevier Water Research
Feline calicivirus	99.9%	Elsevier Water Research
Norwalk virus	99.9%	Applied and Environmental Micro



Aqueous Ozone is approved by the EPA, FDA, USDA, is considered GRAS, and is compliant with the EPA Organic Program as a natural and effective cleaner and sanitizer.