



Sanitizer Efficacy Sheet

ToxicFree® Sanitizer uses pure stabilized oxygen (sodium chlorite) as its 100% safe, effective, powerful active ingredient proven to kill:



Bacteria

TEST ORGANISM	CONTACT TIME	CONCENTRATION	RESULT
Alicyclobacillus acidoterrestris	10 min	30 ppm	99.998% kill
Bacillus cereus spores	5 min	200 ppm	99.999% kill
Campylobacter jejuni	30 sec	30 ppm	99.9% kill
Erwinia carotovora	1 min	50 ppm	99.999% kill
Escherichia coli O157:H7	1 min	3 ppm	99.999 % kill
Lactobacillus sp.	1 min	20 ppm	99.999% kill
Legionella pneumophila	1 min	25 ppm	99.999% kill
Listeria monocytogenes	1 min	25 ppm	99.9999% kill
Methicillin Resistant Staphylococcus aureus (MRSA)	10 min	500 ppm	100% kill
Mycobacterium bovis (tuberculosis)	10 min	500 ppm	99.9999% kill
Pediococcus sp.	1 min	20 ppm	99.999% kill
Proteus mirabilis	1 min	100 ppm	99.999999% kill
Pseudomonas aeruginosa	1 min	5 ppm	99.9999% kill
Salmonella typhimurium	1 min	100 ppm	99.999% kill
Staphylococcus aureus	1 min	30 ppm	99.999% kill
Streptococcus faecalis	1 min	100 ppm	99.99999% kill
Streptococcus faecium	1 min	100 ppm	99.9999% kill
Vancomycin Resistant Enterococcus faecalis (VRE)	10 min	500 ppm	100% kill

Fungi

TEST ORGANISM	CONTACT TIME	CONCENTRATION	RESULT
Aspergillus fumigatus spores	1 min	100 ppm	99.9999% kill
Aspergillus niger	1 min	100 ppm	99.9999% kill
Candida albicans	1 min	100 ppm	99.99999% kill
Cladosporium	30 sec	500 ppm	99.999% kill
Mucor sp	30 sec	500 ppm	99.999% kill
Penicillium	1 min	100 ppm	99.999% kill
Penicillium roquefortii	1 min	500 ppm	100% kill
Saccharomyces cerevisiae	1 min	30 ppm	99.999% kill
Stachybotrys chartarum	1 min	100 ppm	99.997% Kill
Trichophyton mentagrophytes	5 min	500 ppm	100% kill

Viruses

TEST ORGANISM	CONTACT TIME	CONCENTRATION	RESULT
African Swine Fever Virus	5 min	500 ppm	100% virucidal
Avian Influenza A virus	10 min	500 ppm	100% virucidal
Canine Parvovirus	10 min	500 ppm	100% virucidal
COVID-19 (caused by the virus SARS-CoV-2)	10 min	500 ppm	100% virucidal
Coxsackie Virus	5 min	550 ppm	99.9% kill
Foot & Mouth Disease Virus	5 min	500 ppm	100% virucidal
Hepatitis C	10 min	500 ppm	100% virucidal
Herpes Simplex Virus Type 1	5 min	550 ppm	99.9% kill
Newcastle Disease virus	10 min	500 ppm	100% kill
HIV Virus Type 1 (HIV 1)	10 min	500 ppm	100% virucidal
Polio Virus Type 2	10 min	550 ppm	99.9% kill
PRRS virus	1 min	312 ppm	100% virucidal
Pseudorabies virus	10 min	500 ppm	100% virucidal
Rhino Virus	5 min	550 ppm	99.9% kill
SARS-CoV-2	10 min	500 ppm	100% virucidal
Swine Vesicular Disease Virus	5 min	500 ppm	100% virucidal