

# Testing Summary Vital Oxide EPA Registration Number # 82972

1-Nov-09

Bacteria	Use Method	Contact time	Study Conclusion
Pseudomonas Aeruginosa ATCC 15442	AOAC Use-Dilution	10 min.	Hospital Grade Disinfection
Acinetobacter baumannii ATCC 19606	AOAC Use-Dilution	10 min.	Hospital Grade Disinfection
Escherichia Coli ATCC 11229	AOAC Food Contact Sanitization	30 sec	99.999 kill (no rinse required)
Staphylococcus aureus ATCC 6538	AOAC Food Contact Sanitization	30 sec	99.999 kill (no rinse required)
Pseudomonas Aeruginosa ATCC 15442	DIS/TSS-8 Carpet Sanitizer	10 min.	99.9 Carpet Sanitizer
Enterbacter aerogenes ATCC 13048	DIS/TSS-8 Carpet Sanitizer	10 min.	99.9 Carpet Sanitizer
Staphylococcus aureus MRSA ATCC 33592	AOAC Use-Dilution	10 min.	Disinfection
Listeria monocytogenes ATCC 15313	AOAC Use-Dilution	10 min.	Disinfection
Escherichia Coli ATCC 11229	AOAC Use-Dilution	10 min.	Disinfection
Legionella Pneumophila ATCC 33153	AOAC Use-Dilution	10 min.	Disinfection
Salmonella choleraesuis ATCC 10708	AOAC Use-Dilution	10 min.	Disinfection
Staphylococcus aureus ATCC 6538	AOAC Use-Dilution	10 min.	Disinfection
<b>Fungi</b>			
Aspergillus Niger ATCC 6275	Hard Surface Mildew Fungistatic	10 min.	>1 week protection
Stachybotrus chartarum	Sporicidal viability	10 min.	no germination of spores
Aspergillus fumigatus	Sporicidal viability	10 min.	no germination of spores
Alternaria alternata	Sporicidal viability	10 min.	no germination of spores
Penicillum sp	Sporicidal viability	10 min.	no germination of spores
Aspergillus Niger ATCC 6275	Fabric Mildew Fungistatic	10 min.	>4 weeks protection
<b>Virus</b>			
Rotavirus	Virucidal Efficacy	5 min.	complete inactivation
Hepatitis C Virus	Virucidal Efficacy	5 min.	complete inactivation
Hepatitis B Virus	Virucidal Efficacy	5 min.	complete inactivation
Norovirus Feline Calicivirus	Virucidal Efficacy	5 min.	complete inactivation
Murine Norovirus (MNV-1)	Virucidal Efficacy	5 min.	complete inactivation
Swine Influenza (H1N1) Virus	Virucidal Efficacy	5 min.	complete inactivation
Respiratory Syncytial Virus	Virucidal Efficacy	5 min.	complete inactivation
Human Immunodeficiency Virus (HIV Type 1)	Virucidal Efficacy	5 min.	complete inactivation
<b>Toxicity Data</b>			
Dermal Sensitization	Buehler Method	NOT a contact sensitizer	GRAS-Generally Regarded as Safe
Dermal Irritation	Limit test	GRAS-Category 4	GRAS-Generally Regarded as Safe
Acute Inhalation Toxicity	Limit test	GRAS-Category 4	LC50 is greater than 2.09mg/l
Acute Dermal Toxicity	Limit test	GRAS-Category 4	LD50 is greater than 5000mg/kg
Accute Oral Toxicity	Limit test	GRAS-Category 4	LD50 is greater than 5000mg/kg
Ocular Irritation	Limit test Max. Mean Score 15.7	Category 4	Mildly irritating, cleared within 72 hrs