



Concentration of ~100ppm Hypochlorous Acid on Organism

Organism	ATCC number	Contact Time	Reduction
<i>Acinetobacter baumannii</i>	19606	60 seconds	>99.99%
<i>Aspergillus brasiliensis</i>	16404	60 seconds	>99.99%
<i>Bacteroides fragilis</i>	25285*	60 seconds	>99.999%
<i>Candida albicans</i>	10231	60 seconds	>99.99%
<i>Clostridium perfringens</i>	13124*	60 seconds	>99.99%
<i>Corynebacterium amycolatum</i>	49368	60 seconds	>99.99%
<i>Enterobacter aerogenes</i>	51697	60 seconds	>99.999%
<i>Vancomycin-resistant Enterococcus faecium</i>	(VRE) 51559	60 seconds	>99.99%
<i>Haemophilus influenzae</i>	49144	60 seconds	>99.999%
<i>Klebsiella pneumoniae</i>	10031*	60 seconds	>99.999%
<i>Moraxella catarrhalis</i>	8176	60 seconds	>99.9%
<i>Proteus mirabilis</i>	14153*	60 seconds	>99.999%
<i>Pseudomonas aeruginosa</i>	27853	60 seconds	>99.9999%
<i>Serratia marcescens</i>	14756	60 seconds	>99.999%
<i>Methicillin-resistant Staphylococcus aureus</i>	(MRSA) 33591*	60 seconds	>99.999%
<i>Staphylococcus aureus</i>	29213*	60 seconds	>99.999%
<i>Staphylococcus epidermidis</i>	12228	60 seconds	>99.999%
<i>Staphylococcus haemolyticus</i>	29970	60 seconds	>99.99%
<i>Staphylococcus hominis</i>	27844	60 seconds	>99.99%
<i>Staphylococcus saprophyticus</i>	35552	60 seconds	>99.99%
<i>Streptococcus pyogenes</i>	49399*	60 seconds	>99.99%
<i>Vibrio vulnificus</i>	27562*	60 seconds	>99.999%

USP <51> test protocol



Concentration of >230ppm Hypochlorous Acid on Organism

Organism	ATCC number	Contact Time	Reduction
<i>Klebsiella pneumoniae</i>	10031*	15 seconds	>99.9999%
<i>Enterococcus faecalis</i>			
<i>Methicillin-resistant Staphylococcus aureus</i>	(MRSA) 33591*	15 seconds	>99.9999%
<i>Staphylococcus epidermidis</i>	12228	15 seconds	>99.9999%
<i>Acinetobacter baumannii</i>	19606	15 seconds	>99.9999%
<i>Staphylococcus aureus</i>	29213*	15 seconds	>99.9999%
<i>Pseudomonas aeruginosa</i>	27853	15 seconds	>99.9999%
<i>Escheria coli</i>		15 seconds	>99.9999%
<i>Kennel cough</i>		10 minutes	>99.99%
<i>Mycobacterium bovis</i>		10 minutes	>99.99%
<i>C. Difficile</i>		10 minutes	>99.9999%
<i>Candida albicans</i>	10231	15 seconds	>99.9999%
<i>C. Parvovirus</i>		10 minutes	>99.99%
<i>Feline calicivirus</i>		10 minutes	>99.99%
<i>Influenza A (H1N1)</i>		5 minutes	>99.9988%
<i>Influenza A (H3N2)</i>		5 minutes	>99.979%
<i>2009 Pandemic Influenza A (H1N1)</i>		5 minutes	>99.963%
<i>Influenza B</i>		5 minutes	>99.992%
<i>HSV-1</i>		5 minutes	>99.999%
<i>Enterovirus 71</i>		5 minutes	>99.98%
<i>Coxsackie virus B</i>		5 minutes	>99.9999%
<i>Echovirus 6</i>		5 minutes	>99.987%
<i>Adenovirus</i>		5 minutes	>99.996%

USP <51> test protocol

Disclaimer:

Although every reasonable effort has been made to insure the accuracy of the information contained in this document, absolute accuracy cannot be guaranteed. All information are presented to the user "as is" without warranty of any kind, either express or implied. Not responsible for typographical or data errors. See EPA (<https://www.epa.gov/pesticides>) for accurate and updated information