Always read and follow directions on the product label.

Most susceptible	Disinfectant Class	Acids	Alcohols	Aldehydes	Alkalis	Chlorine Compounds	Peroxygen Compounds	Phenois	Quaternary Ammonium Compounds
General susceptibility of microorganisms to chemical disinfectants	mycoplasmas e.g., <i>M. gallisepticum, M. bovis</i>	+	++	++	++	++	++	++	+
	enveloped viruses e.g., coronavirus, herpesvirus, influenzavirus	+	++	++	+	+	+	+/-	+/-
	gram-positive bacteria e.g., <i>Staphylococcus</i> , <i>Streptococcus</i>	+	++	++	+	+	+	++	++
	gram-negative bacteria e.g., <i>Salmonella, E. coli</i>	+	++	++	+	+	+	++	+ ^G
	vegetative fungi e.g., <i>Candida, Aspergillu</i> s	+	+	+	+	+	±	+	+
	fungal spores e.g., <i>Trichophyton, Microsporum</i>	+/-	+/-	+	+	+	+/-	+	+/-
	non-enveloped viruses e.g., parvovirus, picornavirus, calicivirus	_A	-	+	+/-	+	+/-	-	-
	mycobacteria e.g., <i>M. bovis, M. paratuberculosis</i>	-	+	+	+	+	+/-	+/-	-
	protozoal oocysts e.g., <i>Cryptosporidium, Giardia</i>	-	-	-	+/- ^D	_	-	+/- ^E	-
	bacterial endospores e.g., <i>Bacillus</i> spp., <i>Clostridium</i> spp.	+/-	-	+/- c	+/-	+	+/- ^F	-	-
	prions e.g., BSE, scrapie, CWD	— B	-	— B	— B	— B	_ B	-	-

A. FMD virus is susceptible to acids, aldehydes, alkalis, peroxygens

B. high concentrations of some disinfectants can be effective

C. formaldehyde is sporicidal; glutaraldehyde is not

D. ammonium hydroxide only

E. some have activity against coccidia

F. peracetic acid and hydrogen peroxide are sporicidal

G. QAC are generally not effective against Pseudomonas

Table legend: ++ = highly effective; ++ = effective; + = varies with product; - = (no/limited) activity; + = no information available



Data compiled from: Maillard JY. 2013. Factors Affecting the Activities of Microbiocides. IN: Fraise AP et al. (eds). Russell, Hugo & Ayliffe's Principles and Practice of Disinfection, Preservation and Sterilization, 5th ed. 2013; McDonnell G. 2020. Microorganisms and resistance. IN: Block's Disinfection, Sterilization, and Preservation, 6th edition; Quinn PJ et al. Disinfection and biosecurity in the prevention and control of disease in veterinary medicine. IN: Block's Disinfection, Sterilization, and Preservation.

Most

resistant