

## MICROBE SURVIVAL TIMES @ 99% DISINFECTION RATE

Microbe	Type	k value (m <sup>2</sup> /J)	Max Survival (minutes)	Mean Survival (minutes)	Min Survival (minutes)
Bacillus anthracis (spores)	Bacterium	0.028654392	0.76	0.37	0.24
Clostridium tetani	Bacterium	0.046991533	0.46	0.22	0.15
Corynebacterium diphtheriae	Bacterium	0.0701	0.31	0.15	0.10
Coxiella burnetii	Bacterium	0.1535	0.14	0.07	0.04
Enterobacter cloacae	Bacterium	0.03598	0.60	0.29	0.19
Escherichia coli	Bacterium	0.15611423	0.14	0.07	0.04
Haemophilus influenzae	Bacterium	0.0599	0.36	0.18	0.11
Klebsiella pneumoniae	Bacterium	0.0548	0.40	0.19	0.13
Legionella pneumophila	Bacterium	0.446125862	0.05	0.02	0.02
Listeria monocytogenes	Bacterium	0.2303	0.09	0.05	0.03
Methicillin-resistant Staphylococcus aureus (MRSA)	Bacterium	0.08531373	0.25	0.12	0.08
Micrococcus candidus	Bacterium	0.038059258	0.57	0.28	0.18
Mycobacterium tuberculosis	Bacterium	0.33	0.07	0.03	0.02
Pseudomonas aeruginosa	Bacterium	0.5721	0.04	0.02	0.01
Pseudomonas putrefaciens	Bacterium	0.026619481	0.82	0.40	0.26
Rickettsia prowazekii	Bacterium	0.0292	0.74	0.36	0.24
Staphylococcus albus	Bacterium	0.125140494	0.17	0.08	0.06
Streptococcus faecalis	Bacterium	0.062744102	0.35	0.17	0.11
Vancomycin-resistant Enterococci (VRE)	Bacterium	0.0822	0.26	0.13	0.08
Aspergillus niger	Fungus	0.00731	2.97	1.44	0.94
Blastomyces dermatitidis (vegetative)	Fungus	0.016447036	1.32	0.64	0.42
Candida albicans (yeast)	Fungus	0.003070113	7.08	3.44	2.24
Cladosporium herbarum	Fungus	0.00460517	4.72	2.29	1.49
Cryptococcus neoformans (yeast)	Fungus	0.008223518	2.64	1.28	0.84
Fusarium solani	Fungus	0.007348676	2.96	1.44	0.94
Mucor racemosus	Fungus	0.013544618	1.61	0.78	0.51
Penicillium chrysogenum	Fungus	0.0014	15.53	7.54	4.92
Rhizopus nigricans	Fungus	0.0285	0.76	0.37	0.24
Rhodotorula spp. (yeast)	Fungus	0.00205588	10.58	5.14	3.35
Sporotrichum schenkii (yeast)	Fungus	0.008223518	2.64	1.28	0.84
Trichophyton rubrum (vegetative)	Fungus	0.004111759	5.29	2.57	1.67
Adenovirus	Virus	0.055	0.40	0.19	0.13
Chikungunya	Virus	0.0763	0.28	0.14	0.09
Coronavirus (MERS, SARS)	Virus	0.01	2.17	1.06	0.69
Coxsackievirus	Virus	0.111	0.20	0.10	0.06
Dengue Fever Types 1-4	Virus	0.0946	0.23	0.11	0.07
Ebola (Reston, Sudan, Zaire)	Virus	0.0867	0.25	0.12	0.08
Influenza A virus	Virus	0.119	0.18	0.09	0.06
Norovirus	Virus	0.030	0.72	0.35	0.23
Parvovirus (Bovine)	Virus	0.0658	0.33	0.16	0.10
Smallpox	Virus	0.1202	0.18	0.09	0.06
Vaccinia virus	Virus	0.348876529	0.06	0.03	0.02
Varicella-zoster virus	Virus	0.058619783	0.37	0.18	0.12
Yellow Fever	Virus	0.086	0.25	0.12	0.08