

VidaShield - excerpt page 13 of white paper  
 Pathogen single pass disinfection rate  
 Full report available upon request

**Table 3: UV Disinfection Rates of Airborne Nosocomial Pathogens**

Microbe	Type	UV k m <sup>2</sup> /J	UV D90 J/m <sup>2</sup>	Disinfection Rate, %
				15 W
Acinetobacter	Bacteria	0.16	14	100
Adenovirus	Virus	0.054	43	100
Aspergillus spores	Fungi	0.00894	258	83
Blastomyces dermatitidis spores	Fungi	0.01645	140	96
Bordetella pertussis*	Bacteria	0.0364	63	100
Clostridium difficile spores	Bacteria	0.0385	60	100
Clostridium perfringens spores	Bacteria	0.0385	60	100
Coronavirus (SARS)	Virus	0.377	6	100
Corynebacterium diphtheriae	Bacteria	0.0701	33	100
Coxsackievirus	Virus	0.111	21	100
Cryptococcus neoformans spores	Fungi	0.0167	138	96
Enterobacter cloacae	Bacteria	0.03598	64	100
Enterococcus*	Bacteria	0.0822	28	100
Fusarium spores	Fungi	0.00855	269	82
Haemophilus influenzae	Bacteria	0.11845	19	100
Haemophilus parainfluenzae*	Bacteria	0.03	77	100
Influenza A virus	Virus	0.119	19	100
Klebsiella pneumoniae	Bacteria	0.04435	52	100
Legionella pneumophila	Bacteria	0.2024	11	100
Measles virus	Virus	0.1051	22	100
Mucor spores	Fungi	0.01012	228	87
Mumps virus*	Virus	0.0766	30	100
Mycobacterium avium	Bacteria	0.04387	52	100
Mycobacterium tuberculosis	Bacteria	0.4721	5	100
Mycoplasma pneumoniae	Bacteria	0.2791	8	100
Neisseria meningitidis*	Bacteria	0.1057	22	100
Nocardia asteroides	Bacteria	0.0822	28	100
Norwalk virus*	Virus	0.0116	198	90
Parainfluenza virus*	Virus	0.1086	21	100
Parvovirus B19	Virus	0.092	25	100
Proteus mirabilis	Bacteria	0.289	8	100
Pseudomonas aeruginosa	Bacteria	0.5721	4	100
Reovirus	Virus	0.01459	158	94
RSV*	Virus	0.0917	25	100
Rhinovirus*	Virus	0.0142	162	94
Rhizopus spores	Fungi	0.00861	267	82
Rotavirus	Virus	0.02342	98	99
Rubella virus*	Virus	0.0037	622	52
Serratia marcescens	Bacteria	0.221	10	100
Staphylococcus aureus	Bacteria	0.5957	4	100
Staphylococcus epidermis	Bacteria	0.09703	24	100
Streptococcus pneumoniae	Bacteria	0.00492	468	62
Streptococcus pyogenes	Bacteria	0.8113	3	100
VZV (Varicella surrogate k)	Virus	0.1305	18	100
UV Dose, J/m <sup>2</sup>		198		

Note: Asterisk means the UV rate constant is a predicted value based on the complete genome.

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