

UV-C Dosage Requirements For Common Micro-Organisms

UV-C Dose Required	Dose in mWs/cm ²	
	90% (Log 1)	99.9% (Log 3)
Bacteria		
Bacillus anthracis	4.5	13.5
B. megatherium Veg	11.3	33.9
Bacillus pumilis spores	5.0	15.0
B. subtilis	7.1	21.3
B. subtilis Sporen	11.2	33.6
Campylobacter jejuni	1.1	3.3
Corynebacterium diptheria	3.3	9.9
Enterobacter cloacae	6.4	19.2
E. coli	5.5	16.5
Legionella pneumophila	2.5	7.5
Listeria Monocytogenes	7.7	23.1
Micrococcus candidus	6.1	18.2
Micrococcus sphaeroides	10.0	30.0
Mycobacterium tuberculosis	1.1	3.3
Neisseria catarrhalis	4.4	13.2
Proteus vulgaris	3.0	9.0
Pseudomonas aeruginosa	5.5	16.5
Pseudomonas fluorescens	3.5	10.5
Salmonella enteritidis	1.0	3.0
Salmonella typhimurium	2.1	6.3
Serratia marcescens	2.2	6.6
Shigella sonnei	1.8	5.4
Spirillum rubrum	4.4	13.2
Staphylococcus aureus	5.0	15.0

UV-C Dose Required	Dose in mWs/cm ²	
	90% (Log 1)	99.9% (Log 3)
Bacteria		
Streptococcus lactus	6.2	18.5
Streptococcus aureus	5.5	16.5
Streptococcus viridans	2.0	6.0
Yeasts		
Sacch. spp	4.4	13.2
Sacch. ellipsoideus	3.3	9.9
Sporotrichum schenkii	28.0	84.0
Virus		
Hepatitis A	4.5	13.5
Influenza Virus	2.0	6.0
Polio Virus	4.4	13.2
Rotavirus	10.5	31.5
Mould Spores		
Aspergillus flavus	60.0	180.0
Mucor racemosus	17.0	51.0
Oospora lactis	2.8	8.4
Penicillium expansum	13.0	39.0
Penicillium roqueforti	13.0	39.0