

Organism:	Energy Dosage of Ultraviolet radiation (UV dose) in SECONDS with MyBioDefense Wand needed for kill factor		
Bacteria	90% (1 log reduction)	99% (2 log reduction)	99.9% (3 log reduction)
Bacillus anthracis - Anthrax	2 sec	3 sec	7 sec
Bacillus anthracis spores - Anthrax spores	10 sec	18 sec	35 sec
Bacillus magaterium sp. (spores)	1 sec	2 sec	4 sec
Bacillus magaterium sp. (veg.)	1 sec	1 sec	2 sec
Bacillus paratyphus	1 sec	2 sec	5 sec
Bacillus subtilis spores	5 sec	9 sec	17 sec
Bacillus subtilis	2 sec	4 sec	8 sec
Clostridium tetani	5 sec	9 sec	17 sec
Corynebacterium diphtheriae	1 sec	3 sec	5 sec
Ebertelia typhosa	1 sec	2 sec	3 sec
Escherichia coli	1 sec	3 sec	5 sec
Leptospiracanicola - infectious Jaundice	1 sec	2 sec	5 sec
Micrococcus candidus	2 sec	5 sec	9 sec
Micrococcus sphaeroides	0 sec	6 sec	12 sec
Mycobacterium tuberculosis	2 sec	4 sec	8 sec
Neisseria catarrhalis	2 sec	3 sec	7 sec
Phytomonas tumefaciens	2 sec	3 sec	6 sec
Proteus vulgaris	1 sec	3 sec	5 sec
Pseudomonas aeruginosa	2 sec	4 sec	8 sec
Pseudomonas fluorescens	1 sec	3 sec	5 sec
Salmonella enteritidis	2 sec	3 sec	6 sec
Salmonela paratyphi - Enteric fever	1 sec	2 sec	5 sec
Salmonella typhosa - Typhoid fever	1 sec	2 sec	3 sec
Salmonella typhimurium	3 sec	6 sec	12 sec
Sarcina lutea	8 sec	11 sec	20 sec
Serratia marcescens	1 sec	2 sec	5 sec
Shigella dyseteriae - Dysentery	1 sec	2 sec	3 sec
Shigella flexneri - Dysentery	1 sec	1 sec	3 sec
Shigella paradysenteriae	1 sec	1 sec	3 sec
Spirillum rubrum	2 sec	2 sec	5 sec
Staphylococcus albus	1 sec	2 sec	4 sec
Staphylococcus aureus	1 sec	3 sec	5 sec
Staphylococcus hemolyticus	1 sec	2 sec	4 sec
Staphylococcus lactis	2 sec	4 sec	7 sec
Streptococcus viridans	1 sec	2 sec	3 sec
Vibrio comma - Cholera	1 sec	3 sec	5 sec

Molds	90%	99%	99.9%
Aspergillus flavus	24 sec	40 sec	76 sec
Aspergillus glaucus	18 sec	35 sec	68 sec
Aspergillus niger	53 sec	132 sec	253 sec
Mucor racemosus A	7 sec	14 sec	27 sec
Mucor racemosus B	7 sec	14 sec	27 sec
Oospora lactis	2 sec	4 sec	8 sec
Penicillium expansum	5 sec	9 sec	17 sec
Penicillium roqueforti	5 sec	11 sec	20 sec
Penicillium digitatum	18 sec	35 sec	68 sec
Rhizopus nigricans	44 sec	88 sec	169 sec
Protozoa	90%	99%	99.9%
Chlorella Vulgaris	5 sec	9 sec	17 sec
Nematode Eggs	18 sec	37 sec	70 sec
Paramecium	4 sec	8 sec	15 sec
Virus	90%	99%	99.9%
Bacteriophage - E. Coli	1 sec	3 sec	5 sec
Infectious Hepatitis	2 sec	3 sec	6 sec
Influenza	1 sec	3 sec	5 sec
Poliovirus - Poliomyelitis	1 sec	3 sec	5 sec
Tobacco mosaic	96 sec	176 sec	338 sec
Yeast	90%	99%	99.9%
Brewers yeast	1 sec	3 sec	5 sec
Common yeast cake	2 sec	5 sec	10 sec
Saccharomyces carevisiae	2 sec	5 sec	10 sec
Saccharomyces ellipsoideus	2 sec	5 sec	10 sec
Saccharomyces spores	3 sec	7 sec	14 sec

Dosage for Joule/m2

2500 uw/cm2 = 0.04 sec/J

dsDNA viruses (Ebola)	MyBioDefense™ Wand 99% sterilize		
<i>Adenoviridae</i>	5 sec	45 sec	405 sec
<i>Herpesviridae</i>	0 sec	4 sec	34 sec
<i>Iridoviridae</i>	1 sec	7 sec	59 sec
<i>Papillomaviridae</i>	8 sec	75 sec	675 sec
<i>Polyomaviridae</i>	7 sec	63 sec	563 sec
<i>Poxviridae</i>	0 sec	4 sec	36 sec
dsDNA viruses (Ebola)			
<i>Circoviridae</i>	1 sec	7 sec	59 sec
<i>Hepadnaviridae</i>	0 sec	4 sec	34 sec
<i>Parvoviridae</i>	0 sec	3 sec	27 sec

Learn about protecting your health at www.MyBioDefense.com