

LiteSheet UV-C Irradiation Time to Achieve 99.99% Kill Rate for Specific Pathogen					
BACTERIA	30 Seconds	1 Minute	5 Minutes	30 Minutes	1 Hour
Acinetobacter baumannii	x	✓	✓	✓	✓
Bacillus anthracis (Anthrax)	x	✓	✓	✓	✓
Bacillus anthracis spores (Anthrax Spores)	x	x	✓	✓	✓
Bacillus megaterium	✓	✓	✓	✓	✓
Bacillus megaterium spores	✓	✓	✓	✓	✓
Bacillus paratyphosus	✓	✓	✓	✓	✓
Bacillus subtilis	x	✓	✓	✓	✓
Bacillus subtilis spores	x	x	✓	✓	✓
Clostridium tetani	x	x	✓	✓	✓
Clostridium difficile	x	x	✓	✓	✓
Corynebacterium diphtheriae	✓	✓	✓	✓	✓
Ebertelia typhosa	✓	✓	✓	✓	✓
Escherichia coli (E. Coli)	✓	✓	✓	✓	✓
Leptospira canicola (Infectious Jaundice)	✓	✓	✓	✓	✓
Micrococcus candidus	x	✓	✓	✓	✓
Micrococcus sphaeroides	✓	✓	✓	✓	✓
Mycobacterium tuberculosis	x	✓	✓	✓	✓
Neisseria catarrhalis	x	✓	✓	✓	✓
Phytomonas tumefaciens	x	✓	✓	✓	✓
Proteus vulgaris	✓	✓	✓	✓	✓
Pseudomonas aeruginosa	x	✓	✓	✓	✓
Pseudomonas fluorescens	✓	✓	✓	✓	✓
Salmonella enteritidis	x	✓	✓	✓	✓
Salmonella paratyphi (Enteric Fever)	✓	✓	✓	✓	✓
Salmonella typhosa (Typhoid Fever)	✓	✓	✓	✓	✓
Salmonella typhimurium	x	x	✓	✓	✓
Sarcina lutea	x	x	✓	✓	✓
Serratia marcescens	✓	✓	✓	✓	✓
Shigella dysenteriae (Dysentery)	✓	✓	✓	✓	✓
Shigella flexneri (Dysentery)	✓	✓	✓	✓	✓
Shigella paradysenteriae	✓	✓	✓	✓	✓
Spirillum rubrum	x	✓	✓	✓	✓
Staphylococcus albus	✓	✓	✓	✓	✓
Staphylococcus aureus	✓	✓	✓	✓	✓
Methicillin-resistant Staphylococcus aureus (MRSA)	x	✓	✓	✓	✓
Staphylococcus hemolyticus	✓	✓	✓	✓	✓
Staphylococcus lactis	x	✓	✓	✓	✓
Stenotrophomonas maltophilia	x	x	x	✓	✓
Streptococcus viridans	✓	✓	✓	✓	✓
Vancomycin-resistant Enterococci (VRE)	x	✓	✓	✓	✓
Vibrio comma (Cholera)	✓	✓	✓	✓	✓
VIRUS	30 Seconds	1 Minute	5 Minutes	30 Minutes	1 Hour
Bacteriophage	✓	✓	✓	✓	✓
Infectious Hepatitis	x	✓	✓	✓	✓
Influenza	✓	✓	✓	✓	✓
Poliovirus - Poliomyelitis	✓	✓	✓	✓	✓
SARS-CoV-2 (COVID-19)	x	✓	✓	✓	✓
Tobacco mosaic	x	x	x	x	✓
MOLD	30 Seconds	1 Minute	5 Minutes	30 Minutes	1 Hour
Aspergillus flavus	x	x	x	✓	✓
Aspergillus glaucus	x	x	x	✓	✓
Aspergillus niger	x	x	x	✓	✓
Mucor racemosus A	x	x	✓	✓	✓
Mucor racemosus B	x	x	✓	✓	✓
Oospora lactis	x	✓	✓	✓	✓
Penicillium expansum	x	x	✓	✓	✓
Penicillium roqueforti	x	x	✓	✓	✓
Penicillium digitatum	x	x	x	✓	✓
Rhizopus nigricans	x	x	x	✓	✓
YEAST	30 Seconds	1 Minute	5 Minutes	30 Minutes	1 Hour
Brewers yeast	✓	✓	✓	✓	✓
Candida albicans	x	✓	✓	✓	✓
Common yeast cake	x	✓	✓	✓	✓
Saccharomyces cerevisiae	x	✓	✓	✓	✓
Saccharomyces ellipsoideus	x	✓	✓	✓	✓
Saccharomyces spores	x	x	✓	✓	✓
PROTOZOA	30 Seconds	1 Minute	5 Minutes	30 Minutes	1 Hour
Chlorella Vulgaris	x	x	✓	✓	✓
Nematode Eggs	x	x	x	✓	✓
Paramecium	x	x	✓	✓	✓

References

1. <https://www.americanairandwater.com/uv-facts/uv-dosage.htm>
2. <https://www.frontiersin.org/articles/10.3389/fmicb.2019.02718/full>
3. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3048910/>
4. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2910020/>
5. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3463377/#:~:text=multidrug%2Dresistant%20A.,baumannii%20cells%20were%20inactivated%20at%20UVC%20exposures%20much%20lower%20than,similar%20effect%20on%20mammalian%20cells.&text=UVC%2Dinduced%20DNA%20lesions%20in>
6. <https://www.medrxiv.org/content/10.1101/2020.06.05.20123463v2.full-text>