

UVC Germicidal Energy Required to Destroy Microorganisms

MICROORGANISM	ENERGY $\mu\text{W}\cdot\text{sec}/\text{cm}^2$
BACTERIA	
Bacillus anthracis	4,520
Bacillus megaterium	1,300
Bacillus megaterium spores	2,730
Bacillus subtilis	7,100
Bacillus subtilis spores	12,000
Corynebacterium diphtheriae	3,370
Escherichia coli	3,000
Micrococcus lutea	19,700
Micrococcus spheroides	10,000
Neisseria catarrhalis	4,400
Proteus vulgaris	2,640
Pseudomonas aeruginosa	3,500
Pseudomonas fluorescens	8,000
Salmonella enteritidis	4,000
Salmonella typhimurium	8,000
Serratia marcescens	2,420
Shigella paradysenteriae	1,680
Spirillum rubrum	4,400
Staphylococcus albus	1,840
Staphylococcus aureus	2,600
Streptococcus hemolyticus	2,160
Streptococcus lactis	6,150
Streptococcus viridans	2,000
YEASTS	
Saccharomyces cerevisiae	6,000
Saccharomyces elliposoides	6,000
Brewer's yeast	3,300
Baker's yeast	3,900
MOLD SPORES	
Aspergillus flavus	60,000
Aspergillus glaucus	44,000
Aspergillus niger	132,000
Mucor racemosus	17,000
Oospora lactis	6,000
Penicillium digitatum	44,000
Penicillium expansum	13,000
Pencillium roqueforti	13,000
Rhizopus nigricans	111,000
VIRUSES	
Bacteriophage – E. Coli	6,600
Infectious Hepatitis	8,000
Influenza	6,600
Rotavirus	21,000
SARS coronavirus	6,600

Sources: - *Various sources may report different inactivation dosages*

Research Report BL-R-6-1059-3023-1, Westinghouse Electric Corporation & others