

UV-C GERMICIDAL ENERGY

Necessary to inhibit colony formation in 90% of the organisms and for complete destruction.

Energy in microwatt-seconds per cm²

BACTERIAL ORGANISMS

90% COMPLETE

Bacillus anthracis	4520	8700
B. megatherium sp. (vegetable)	1300	2500
B. megatherium sp. (spores)	2730	5200
B. paratyphosus	3200	6100
B. subtilis	5800	11000
B. subtilis spores	11600	22000
Clostridium tetani	13000	22000
Corynebacterium diptheriae	3370	6500
Eberthelia typosa	2140	4100
Escherichia coli	3000	6600
Leptospira (infectious jaundice)	3150	6000
Micrococcus candidus	6050	12300
Micrococcus sphaeroides	10000	15400
Microbacterium tuberculosis	6200	10000
Neisseria catarrhalis	4400	8500
Phytomonas tumefaciens	4400	8500
Proteus vulgaris	3000	6600
Pseudomonas aerugionsa	5500	10500
Pseudomonas fluorescens	3500	6600
S. enteritidis	4600	7600
S. typhimurium	8000	15200
Salmonella typhosa (Typhoid fever)	2150	4100
Salmonella paratyphi (Enteric fever)	3200	6100
Sarcina lutea	19700	26400
Serratia marcescens	3320	6160
Shigella dysenteriae (Dysentery)	2200	4200
Shigella flexneri (Dysentery)	1700	3400
Shigella paradysenteriae	1680	3400
Spirillum rubrum	4400	6160
Staphylococcus albus	1840	5720
Staphylococcus aureus	2600	6600
Streptococcus hemolyticus	2160	5500
Streptococcus lactis	6150	8800
Streptococcus viridans	2000	3800
Vibria cholerae (Cholera)	3375	6500

MOLD SPORES

90% COMPLETE

Aspergillus flavus (yellowish green)	60000	99000
Aspergillus glaucus (bluish green)	44000	88000
Aspergillus niger (black)	132000	330000
Mucor racemosus A (white gray)	17000	35200
Mucor racemosus B (white gray)	17000	35200
Oospora lactis (white)	5000	11000
Penicillium digitatum (olive)	44000	88000
Penicillium expansum (olive)	13000	22000
Penicillium roqueforti (green)	13000	26400
Rhizopus nigricans (black)	111000	220000

PROTOZOA

Chlorella vulgaris (algae)	13000	22000
Nematode eggs	40000	92000
Paramecium	110000	200000

VIRUSES

Bacteriophage (E. coli)	2600	6600
Influenza	3400	6600
Poliomyelitis (Poliovirus)	3150	6000
Infectious Hepatitis	5800	8000
Tobacco mosaic	240000	440000

YEASTS

Baker's yeast	4400	8800
Brewer's yeast	3300	6600
Common yeast cake	6000	13200
Saccharomyces cerevisiae	6000	13200
Saccharomyces ellipsoideus	6000	13200
Saccharomyces sp	8000	17600