

# MICRO-ORGANISM DESTRUCTION CHART

(Ultraviolet Energy Levels At 2537 Angstrom Units Wavelength Required For 99.9% Destruction Of Various Microorganisms)  
(UV energy in microwatt seconds per square centimetre)

## BACTERIA

<i>Agrobacterium tumefaciens</i> .....	8,500
<i>Bacillus anthracis</i> .....	8,700
<i>Bacillus megatherium</i> (vegetative) .....	2,500
<i>Bacillus megatherium</i> (spores) .....	52,000
<i>Bacillus subtilis</i> (vegetative) .....	11,000
<i>Bacillus subtilis</i> (spores) .....	58,000
<i>Clostridium tetani</i> .....	22,000
<i>Corynebacterium diphtheriae</i> .....	6,500
Dysentary bacilli (diarrhea) .....	4,200
<i>Escherichia coli</i> (diarrhea) .....	7,000
<i>Legionella bozemanii</i> .....	3,500
<i>Legionella dumoffii</i> .....	5,500
<i>Legionella gormanii</i> .....	4,900
<i>Legionella micdadei</i> .....	3,100
<i>Legionella longbeachae</i> .....	2,900
<i>Legionella pneumophila</i> (legionnaires disease) .....	3,800
<i>Leptospira interrogans</i> (infectious jaundice) .....	6,000
<i>Mycobacterium tuberculosis</i> .....	10,000
<i>Neisseria catarrhalis</i> .....	8,500
<i>Proteus vulgaris</i> .....	6,600
<i>Pseudomonas aeruginosa</i> (laboratory) .....	3,900
<i>Pseudomonas aeruginosa</i> (environmental) .....	10,500
<i>Rhodospirillum rubrum</i> .....	6,200
<i>Salmonella</i> (food poisoning) .....	10,000
<i>Salmonella enteritidis</i> .....	7,600
<i>Salmonella paratyphi</i> (enteric fever) .....	6,100
<i>Salmonella typhimurium</i> .....	15,200
<i>Salmonella typhosa</i> (typhoid fever) .....	7,000
<i>Sarcina lutea</i> .....	26,400
<i>Serratia marcescens</i> .....	6,200
<i>Shigella dysenteriae</i> (dysentary) .....	4,200
<i>Shigella flexneri</i> (dysentary) .....	3,400
<i>Shigella sonnei</i> .....	7,000
<i>Staphylococcus epidermidis</i> .....	5,800
<i>Staphylococcus aureus</i> .....	7,000
<i>Streptococcus faecalis</i> .....	10,000
<i>Streptococcus hemolyticus</i> .....	5,500
<i>Streptococcus lactis</i> .....	8,800
<i>Viridans streptococci</i> .....	3,800
<i>Vibrio comma</i> (cholera) .....	6,500

## MOLD SPORES

<i>Aspergillus flavus</i> (yellowish green) .....	99,000
<i>Aspergillus glaucus</i> (bluish green) .....	88,000
<i>Aspergillus niger</i> (black, bread mold) ....	330,000
<i>Mucor ramosissimus</i> (white-gray) .....	35,200
<i>Penicillium digitatum</i> (olive) .....	88,000
<i>Penicillium expansum</i> (olive) .....	22,000
<i>Penicillium roqueforti</i> (green) .....	26,400
<i>Rhizopus nigricans</i> (cheese mold) .....	220,000

## ALGAE

<i>Chlorella vulgaris</i> .....	22,000
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## PROTOZOA

Nematode eggs .....	92,000
<i>Paramecium</i> .....	200,000

## VIRUSES

Bacteriophage (E. Coli) .....	6,600
Hepatitis .....	8,000
Influenza .....	6,600
Poliovirus (poliomyelitis) .....	7,000
Rotavirus .....	24,000
Tobacco mosaic virus .....	440,000

## YEAST

Baker's yeast .....	8,800
Brewer's yeast .....	6,600
Common yeast cake .....	13,200
<i>Saccharomyces ellipsoideus</i> .....	13,200
<i>Saccharomyces sp</i> .....	17,600