

List of Viruses shown to be inhibited or destroyed by photocatalysts

Host	Virus	Reference
Bacteroides fragilis	Not specified	Armon et al. (1998)
Birds	Influenza (avian) A/H5N2	Guillard et al. (2008)
E. coli	Coliphage	Guimarães and Barreto (2003)
E. coli	fr	Gerrity et al. (2008)
E. coli	T4	Ditta et al. (2008), Sheel et al. (2008)
E. coli	λ vir	Yu et al. (2008)
E. coli	λNM1149	Belhácová et al. (1999)
E. coli	φX174	Gerrity et al. (2008)
E. coli	MS2	Sjogren and Sierka (1994), Greist et al. (2002), Cho et al. (2004, 2005), Sato and Taya (2006a, b), Vohra et al. (2006), Gerrity et al. (2008)
E. coli	Qβ	Lee et al. (1997), Otaki et al. (2000)
Human	Hepatitis B virus surface antigen HBsAg	Zan et al. (2007)
Human	Influenza A/H1N1	Lin et al. (2006)
Human	Influenza A/H3N2	Kozlova et al. (2010)
Human	Norovirus	Kato et al. (2005)
Human	Poliovirus type 1 (ATCC VR-192)	Watts et al. (1995)
Human	SARS coronavirus	Han et al. (2004)
Human	Vaccinia	Kozlova et al. (2010)
Lactobacillus casei	PL-1	Kakita et al. (1997, 2000), Kashige et al. (2001)
Salmonella typhimurium	PRDI	Gerrity et al. (2008)

Examples of *E. coli* strains shown to be killed

Organism	Reference
<i>Escherichia coli</i> WO ₃	Tatsuma et al. (2003)
<i>Escherichia coli</i>	Vohra et al. (2006)
<i>Escherichia coli</i> ATCC 8739	Cho et al. (2005)
<i>Escherichia coli</i> ATCC 11229	Kühn et al. (2003)
<i>Escherichia coli</i> ATCC 13706	Rodriguez et al. (2007)
<i>Escherichia coli</i> ATCC 10536	Brook et al. (2007), Dittat et al. (2008)
<i>Escherichia coli</i> ATCC 15153	Ibáñez et al. (2003)
<i>Escherichia coli</i> ATCC 23505	Shieh et al. (2006)
<i>Escherichia coli</i> ATCC 23631	Sichel et al. (2007a)
<i>Escherichia coli</i> ATCC 25922	Sökmen et al. (2001)
<i>Escherichia coli</i> ATCC 25922	Ryu et al. (2008)
<i>Escherichia coli</i> ATCC 27325	Huang et al. (2000) Maness et al. (1999)
<i>Escherichia coli</i> ATCC-39713	Matsunaga et al. (1995)
<i>Escherichia coli</i> CAH57 (ESBL)	Dunlop et al. (2010)
<i>Escherichia coli</i> CCRC 10675	Liu and Yang (2003)
<i>Escherichia coli</i> CECT 101	Kubacka et al. (2008b)
<i>Escherichia coli</i> DH4 α	Lan et al. (2007)
<i>Escherichia coli</i> DH5 α	Belhácová et al. (1999) Yu et al. (2002, 2003b)
<i>Escherichia coli</i> HB101	Bekbölet and Araz (1996), Bekbölet (1997)
<i>Escherichia coli</i> HB101	Coleman et al. (2005)
<i>Escherichia coli</i> IFO 3301	Kikuchi et al. (1997) Sunada et al. (2003b)
<i>Escherichia coli</i> IM303	Sato et al. (2003)
<i>Escherichia coli</i> JM109	Yu et al. (2002)
<i>Escherichia coli</i> K12 ATCC10798	Duffy et al. (2004) McLoughlin et al. (2004a, b)
<i>Escherichia coli</i> K12 ATCC10798	Pal et al. (2007)
<i>Escherichia coli</i> K12 (ATCC 23716)	Pal et al. (2008)
<i>Escherichia coli</i> K12 (ATCC 2363)	Rincon and Pulgarin (2003, 2004a)
<i>Escherichia coli</i> K12	Marugan et al. (2008)
<i>Escherichia coli</i> K12	Fernandez et al. (2005) Gamy et al. (2006a, b)
<i>Escherichia coli</i> K12	Quisenberry et al. (2009)
<i>Escherichia coli</i> MG1655	Dunlop et al. (2002)
<i>Escherichia coli</i> MM294	Gogniat and Dukan (2007)
<i>Escherichia coli</i> NCIMB-4481	Kim et al. (2004)
<i>Escherichia coli</i> PHL1273	Butterfield et al. (1997)
<i>Escherichia coli</i> PHL1273	Benabbou et al. (2007)
<i>Escherichia coli</i> S1400/95	Guillard et al. (2008)
<i>Escherichia coli</i> 078	Robertson et al. (2005)
<i>Escherichia coli</i> XL1 Blue MRF	Choi et al. (2004)
	Yu et al. (2002)

Other Gram-negative bacteria shown to be killed

Organism	Reference
Acinetobacter	Kashyout et al. (2006)
Acinetobacter baumanii	Cheng et al. (2009)
Aeromonas hydrophila AWWX1	Kersters et al. (1998)
Anabaena	Kim and Lee (2005)
Bacteroides fragilis	Tsuang et al. (2008)
Coliforms	Araña et al. (2002)
Coliforms	Watts et al. (1995)
Edwardsiella tarda	Cheng et al. (2008)
Enterobacter aerogenes	Ibáñez et al. (2003)
Enterobacter cloacae SMI	Yao et al. (2007a)
Erwinia carotovora subsp. Carotovora	Muszkat et al. (2005)
Erwinia carotovora subsp. carotovora ZL1, subsp. Carotovora 3, subsp. Carotovora 7	Yao et al. (2007a, b, 2008a, b)
Faecal coliforms	Watts et al. (1995)
Flavobacterium sp.	Cohen-Yaniv et al. (2008)
Fusobacterium nucleatum	Suketa et al. (2005), Bai et al. (2007)
Legionella pneumophila ATCC 33153	Cheng et al. (2007)
Legionella pneumophila CCRC 16084	Li et al. (2003)
Legionella pneumophila GIFU-9888	Dadjour et al. (2005, 2006)
Microcystis	Kim and Lee (2005)
Porphyromonas gingivalis	Chun et al. (2007)
Prevotella intermedia	Mo et al. (2007)
Proteus vulgaris	Matsunaga et al. (1985)
P. aeruginosa	Kühn et al. (2003)
P. aeruginosa environmental isolate	Amezaga-Madrid et al. (2002, 2003)
P. aeruginosa PA01	Gage et al. (2005)
P. aeruginosa	Luo et al. (2008)
P. aeruginosa	Yao et al. (2008c)
P. fluorescens R2F	Kersters et al. (1998)
P. fluorescens B22	Skorb et al. (2008)
Pseudomonas sp.	Muraleedharan et al. (2003)
Pseudomonas stutzeri NCIMB11358	Biguzzi and Shama (1994)
Pseudomonas syringae pv tomato	Muszkat et al. (2005)
Pseudomonas tolaasi	Sawada et al. (2005)
Salmonella choleraesuis	Kim et al. (2003)
Salmonella enteriditis Typhimurium	Ibáñez et al. (2003), Cushnie et al. (2009)
Salmonella enteriditis Typhimurium	Cho et al. (2007a, b)
Serratia marcescens	Block et al. (1997)
Shigella flexneri	Goswami et al. (1999)
Vibrio parahaemolyticus	Cheng et al. (2009)
Vibrio parahaemolyticus VP 144	Kim et al. (2003)
Vibrio vulnificus	Hara-Kudo et al. (2006)
	Song et al. (2008)

Gram-positive bacteria shown to be killed

Organism	Reference
<i>Actinobacillus actinomycetemcomitans</i>	Suketa et al. (2005)
<i>Actinomyces viscosus</i>	Nagame et al. (1989)
<i>Bacillus cereus</i>	Cho et al. (2007a)
<i>Bacillus cereus</i> spores	Armon et al. (2004)
<i>Bacillus megaterium</i> QM B1551)	Fu et al. (2005)
<i>Bacillus pumilis</i> spores ATCC 27142	Pham et al. (1995, 1997)
<i>Bacillus</i> sp.	Rincón and Pulgarín (2005)
<i>Bacillus subtilis</i> vegetative cells and endospores	Wolfrum et al. (2002)
<i>Bacillus subtilis</i> endospores	Greist et al. (2002)
<i>Bacillus thuringiensis</i>	Kozlova et al. (2010)
<i>Clavibacter michiganensis</i>	Muszkat et al. (2005)
<i>Clostridium difficile</i>	Dunlop et al. (2010)
<i>Clostridium perfringens</i> spores NCIMB 6125	Butterfield et al. (1997)
<i>Clostridium perfringens</i> spores	Guimarães and Barreto (2003)
<i>Deinococcus radiophilus</i>	Laot et al. (1999)
<i>Enterococcus (Streptococcus) faecalis</i>	Herrera Melián et al. (2000)
<i>Enterococcus (Streptococcus) faecalis</i> Immobilised	Singh et al. (2005)
<i>Enterococcus faecalis</i> CECT 481	Vidal et al. (1999)
<i>Enterococcus faecium</i>	Kühn et al. (2003)
<i>Enterococcus hirae</i>	Tsuang et al. (2008)
<i>Enterococcus</i> sp.	Rincón and Pulgarín (2005)
<i>Lactobacillus acidophilus</i>	Matsunaga et al. (1985), Choi et al. (2007a)
<i>Lactobacillus helveticus</i> CCRC 13936	Liu and Yang (2003)
<i>Lactococcus lactis</i> 411	Skorb et al. (2008)
<i>Listeria monocytogenes</i>	Kim et al. (2003)
<i>Microbacterium</i> sp. <i>Microbacteriaceae</i> str. W7	Pal et al. (2007)
<i>Micrococcus luteus</i>	Wolfrum et al. (2002)
<i>Micrococcus lylae</i>	Yu et al. (2005b)
MRSA	Chen et al. (2008)
MRSA	Oka et al. (2008)
<i>Mycobacterium smegmatis</i>	Kozlova et al. (2010)
<i>Porphyromonas gingivalis</i>	Shiraishi et al. (1999)
<i>Paenibacillus</i> sp SAFN-007	Pal et al. (2007)
<i>Staphylococcus aureus</i>	Block et al. (1997)
<i>Staphylococcus aureus</i>	Shiraishi et al. (1999)
<i>Staphylococcus epidermidis</i> NCTC11047	Sheel et al. (2008)
<i>Staphylococcus saprophyticus</i>	Chen et al. (2008)
<i>Streptococcus cricetus</i>	Nagame et al. (1989)
<i>Streptococcus iniae</i>	Cheng et al. (2008)
<i>Streptococcus mutans</i>	Chun et al. (2007)
<i>Streptococcus mutans</i> GS5, LM7, OMZ175	Saito et al. (1992)
<i>Streptococcus pyogenes</i> ery, cam,	Chen et al. (2008)
<i>Streptococcus ratus</i> FA-1	Saito et al. (1992)
<i>Streptococcus sobrinus</i> AHT	Saito et al. (1992)

Protozoa and algae shown to be killed

Organism	Reference
Protozoa	Protozoa
Acanthamoeba castellanii	Sökmen et al. (2008)
Only 50% kill for cysts, trophozoites were sensitive	50% kill for cysts, trophozoites were sensitive
Acanthamoeba polyphaga environmental isolate	Llonnen et al. (2005)
Cryptosporidium parvum	Ryu et al. (2008)
Cryptosporidium parvum	Curtis et al. (2002)
Giardia sp. Fibrous	Navalon et al. (2009)
Giardia intestinalis cysts	Sökmen et al. (2008)
Giardia lamblia	Lee et al. (2004)
Tetrahymena pyriformis	Peng et al. (2010)
Algae	Algae
Amphidinium corterac	Rodriguez-Gonzalez et al. (2010)
Chlorella vulgaris	Matsunaga et al. (1985)
Cladophora sp.	Peller et al. (2007)
Chroococcus sp. 27269	Hong et al. (2005)
Melosira sp.	Kim and Lee (2005)
Oedogonium sp.	Linkous et al. (2000)
Tetraselmis suecica	Rodriguez-Gonzalez et al. (2010)