

Disinfection of	Test method	Contact time	Approved Log	Study conclusion
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### Spores

<b><i>Bacillus subtilis</i></b> ATCC 6633	Quantitative surface test EN 13697:2001 (Phase 2, Step 2)	2 min	4 log <sub>10</sub>	Sporicidal effect Clean condition
<b><i>Clostridium difficile</i></b> UK 023	Suspension test* EN 13704:2002 (Phase 2, Step 1)	2 min	3-5 log <sub>10</sub>	Sporicidal effect Clean condition

### Mycobacterium

<b><i>Mycobacterium terrae</i></b> ATCC 15755	Suspension test EN 14348:2005 (Phase 2, Step 1)	1 min	4 log <sub>10</sub>	Mycobactericidal / Tuberculocidal effect Clean condition
<b><i>Mycobacterium avium</i></b> ATCC 15769	Suspension test EN 14348:2005 (Phase 2, Step 1)	1 min	4 log <sub>10</sub>	Mycobactericidal / Tuberculocidal effect Clean condition
<b><i>Mycobacterium terrae</i></b> ATCC 15755	Carrier test EN 14563:2009 (Phase 2, Step 2)	1 min	4 log <sub>10</sub>	Mycobactericidal / Tuberculocidal effect Clean condition
<b><i>Mycobacterium avium</i></b> ATCC 15769	Carrier test EN 14563:2009 (Phase 2, Step 2)	1 min	4 log <sub>10</sub>	Mycobactericidal / Tuberculocidal effect Clean condition

### Viruses

<b>Poliovirus</b> type 1, LSc-2aba	EN 14476:2013	1 min	5 log <sub>10</sub>	Virucidal effect Clean condition
<b>Adenovirus</b> type 5, strain Adenoid 75, ATCC VR-5	EN 14476:2013	1 min	6 log <sub>10</sub>	Virucidal effect Clean condition
<b>Murine Norovirus</b> strain S99	EN 14476:2013	1 min	5 log <sub>10</sub>	Virucidal effect Clean condition

### Fungicidal

<b><i>Candida albicans</i></b> ATCC 10231	Suspension test EN 13624:2013 (Phase 2, Step 1)	1 min	4 log <sub>10</sub>	Yeasticidal / Fungicidal effect Clean condition
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<b>Aspergillus brasiliensis</b> ATCC 16404	Suspension test EN 13624:2013 (Phase 2, Step 1)	1 min	4 log <sub>10</sub>	Yeasticidal / Fungicidal effect Clean condition
<b>Candida albicans</b> ATCC 10231	Carrier test EN 14562:2006 (Phase 2, Step 2)	1 min	4 log <sub>10</sub>	Yeasticidal effect Clean condition
<b>Aspergillus brasiliensis (niger)</b> ATCC 16404	Carrier test EN 14562:2006 (Phase 1, Step 2)	2 min	4 log <sub>10</sub>	Fungicidal effect Clean / Dirty condition

### Gram-Negative Bacteria

<b>Enterococcus hirae</b> ATCC 10541	Suspension test EN 13727:2014 (Phase 2, Step 1)	1 min	5 log <sub>10</sub>	Bactericidal effect Clean condition
<b>Pseudomonas aeruginosa</b> ATCC 15442	Suspension test EN 13727:2014 (Phase 2, Step 1)	1 min	5 log <sub>10</sub>	Bactericidal effect Clean condition
<b>Escherichia coli</b> ATCC 25922	Quantitative suspension test* EN 13727	2 min	7 log <sub>10</sub>	Bactericidal effect Clean condition
<b>Campylobacter jejuni</b> ATCC 33560	Quantitative suspension test* EN 13727:2002 (Phase 2, Step 1)	2 min	7 log <sub>10</sub>	Bactericidal effect Clean condition
<b>Salmonella typhimurium</b> ATCC 14028	Quantitative suspension test* EN 13727 (Phase 2, Step 1)	2 min / 5 min	8 log <sub>10</sub>	Bactericidal effect** Clean / Dirty condition
<b>Legionella pneumophila</b> ATCC 33152	Quantitative suspension test* EN 13727 (Phase 2, Step 1)	2 min / 5 min	9 log <sub>10</sub>	Bactericidal effect** Clean / Dirty condition
<b>Aeromonas salmonicida</b> ATCC 14174	Quantitative suspension test* EN 14349:2012 (Phase 2, Step 2)	2 min / 5 min	9 log <sub>10</sub> / 6 log <sub>10</sub>	Bactericidal effect** Clean / Dirty condition
<b>Yersinia ruckeri</b> ATCC 29473	Quantitative suspension test* EN 14349:2012 (Phase 2, Step 2)	2 min / 5 min	9 log <sub>10</sub> / 5 log <sub>10</sub>	Bactericidal effect** Clean / Dirty condition

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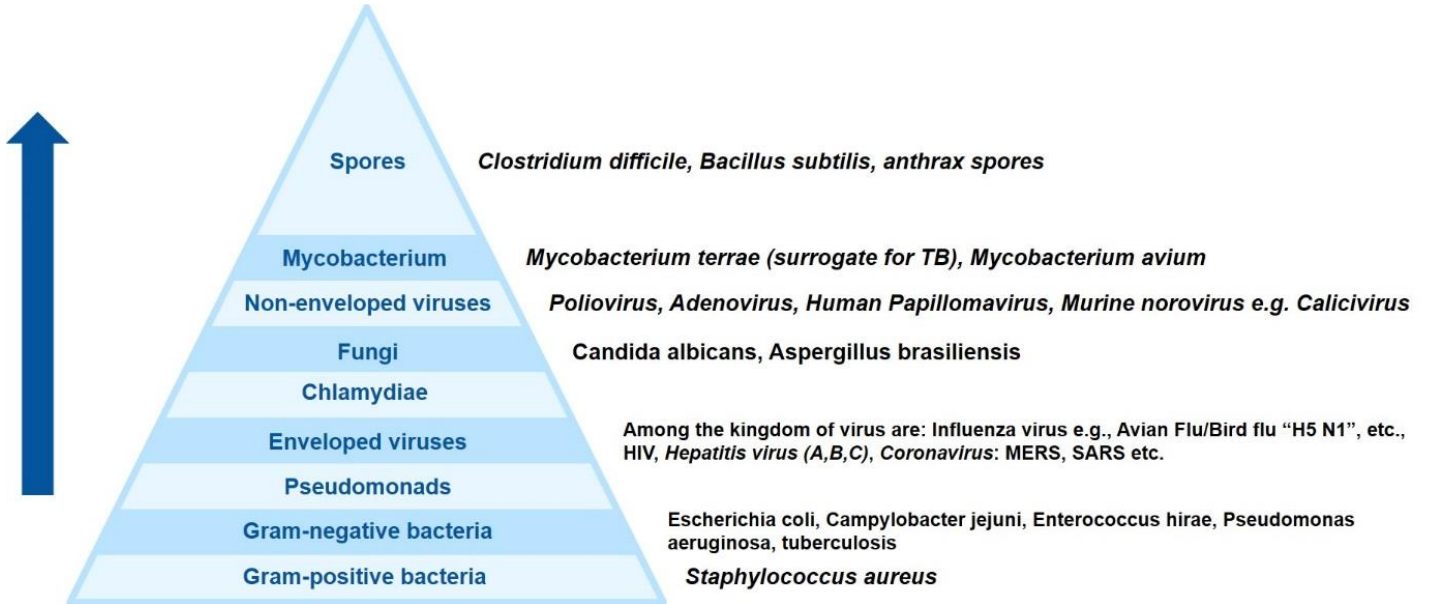
### Gram-Positive Bacteria

<b><i>Staphylococcus aureus</i></b> ATCC 6538	Suspension test EN 13727:2014 (Phase 2, Step 1)	1 min	5 log <sub>10</sub>	Bactericidal effect Clean condition
<b><i>Listeria monocytogenes</i></b> CCUG 51681	Quantitative suspension test* EN 13727 (Phase 2, Step 1)	2 min	9 log <sub>10</sub>	Bactericidal effect Clean condition
<b><i>Streptococcus equi</i></b> CCUG 37782	Quantitative suspension test* EN 13727 (Phase 2, Step 1)	2 min / 5 min	9 log <sub>10</sub> / 4 log <sub>10</sub>	Bactericidal effect** Clean / Dirty condition
<b><i>Carnobacterium piscicola</i></b> ATCC 3586	Quantitative suspension test* EN 14349:2012 (Phase 2, Step 2)	2 min / 5 min	8 log <sub>10</sub> / 5 log <sub>10</sub>	Bactericidal effect** Clean / Dirty condition

\* *LifeClean* internal tests conducted at Örebro University Hospital, Sweden

\*\* Bactericidal effect (Clean condition for 2 minutes and Dirty condition for 5 minutes)

**LifeClean have full elimination of**



## LifeClean works on

(Excerpt from report by Dr. Brill + Dr. Steinmann Institute for hygiene and microbiology)

### **Sporicidal-Gastrointestinal tract**

*Bacillus subtilis*  
*Clostridium difficile*

### **Bactericidal/Mycobacteriacid-Nose, respiratory tract, and skin**

*Staphylococcus aureus*  
*Enterococcus hirae*  
*Pseudomonas aeruginosa*  
*Mycobacterium avium*  
*Mycobacterium terrae*

### **Fungicidal/Yeasticidal-Oral, earl and genital infections**

*Candida albicans*  
*Aspergillus brasiliensis*

From Annex Bin EN 14476: Examples of viruses, which may contaminate human medical instruments, hands, surfaces (Enveloped viruses are in bold).  
**NOTE: This list is not exhaustive.**

#### **Blood:**

Enterovirus	Hepatitis C virus (HCV)
Filoviridae	Hepatitis Delta virus (HDV)
Flavivirus	Human Immunodeficiency Virus (HIV)
Herpesviridae	Human T Cell Leukemia Virus (HTLV)
Hepatitis A Virus (HAV)	Parvovirus B 19
Hepatitis B virus (HBV)	

Astrovirus

Rotavirus

#### **Skin, breast and/or milk**

Enterovirus  
Herpesviridae  
Human Immunodeficiency Virus (HIV)

Human T Cell Leukemia Virus (HTLV)  
Papillomavirus

Poxviridae

#### **Spleen and lymph nodes (see also „Blood“)**

Human T Cell Leukemia Virus (HTLV)  
Human Immunodeficiency Virus (HIV)

#### **Dental procedure**

Adenovirus(Mast-)  
Enterovirus  
Herpesviridae  
Hepatitis B virus (HBV)

Hepatitis C Virus (HCV)  
Hepatitis Delta Virus (HDV)  
Human Immunodeficiency Virus (HIV)

#### **Urogenital tract**

Hepatitis B Virus (HBV)  
Herpesviridae  
Human Immunodeficiency Virus (HIV)

Human T Cell Leukemia Virus (HTLV)  
Papillomavirus

Polyomavi

#### **Respiratory tract**

Adenovirus (Mast-)  
Coronavirus  
Enterovirus  
Herpesviridae

Influenza Virus  
Paramyxoviridae  
Rhinovirus  
Rubella Virus

#### **Neural tissue, ear & nose, eye**

Adenovirus (Mast-)  
Enterovirus  
Herpesviridae  
Measles Virus

Human Immunodeficiency Virus (HIV)  
Polyomavirus  
Rabies Virus  
Rubella Virus

#### **Gastro-intestinal**

Adenovirus(Mast-)  
Caliciviridae  
Coronavirus

Enterovirus  
Hepatitis A Virus (HAV)  
Hepatitis E Virus (HEV)