

	Test norm	Test type	Organism	Log reduction required	Log reduction achieved	Laboratory	Clean or dirty	Contact time	LC Std 400-200 PPM	LC Pluss 650-400 PPM
Sporicidal	EN 13697:2001 (Phase 2, Step 2)	Quantitative surface test	<i>Bacillus subtilis</i> ATCC 6633	4 log ₁₀	>4 log ₁₀	Dr. Brill + Partner GMBH Laboratory, Germany	Clean	2 min		✓
	EN 13697:2001 (Phase 2, Step 2)	Quantitative surface test	<i>Clostridium difficile</i> ¹ UK 027	3 log ₁₀	>3 log ₁₀		Clean	2 min		✓
	EN 13704:2002 (Phase 2, Step 1)	Quantitative suspension test	<i>Clostridium difficile</i> ¹ UK 027	3 log ₁₀	>3 log ₁₀		Clean	5 min	✓	✓
					>3.3 log ₁₀		Dirty		✓	✓
			<i>Clostridium difficile</i> ² UK 027	>6.1-7.5 log ₁₀	Clean	5-10 min	✓	✓		
	EN 17126:2018 (Phase 2, Step 1)	Quantitative suspension test	<i>Bacillus subtilis</i> <i>Bacillus cereus</i> <i>Clostridium difficile</i>	4 log ₁₀	>5.02 log ₁₀	MSL Solution, UK	Clean	2-5 min ⁶	✓	✓
					>5.21 log ₁₀					
	>5.21 log ₁₀									
	EN 17126:2018 (Phase 2, Step 1)	Quantitative suspension test	<i>Bacillus subtilis</i> <i>Bacillus cereus</i> <i>Clostridium difficile</i>	4 log ₁₀	>4.08 log ₁₀	MSL Solution, UK	Dirty	2 min	✓ ⁶	✓
					>5.36 log ₁₀				2 min	✓ ⁶
>5.43 log ₁₀					2 min				✓ ⁶	✓
Mycobactericidal	EN 14348:2005 (Phase 2, Step 1)	Quantitative suspension test	<i>Mycobacterium terrae</i> ATCC 15755	4 log ₁₀	>4 log ₁₀	Dr. Brill + Partner GMBH Laboratory, Germany	Clean	1 min	✓	✓
			<i>Mycobacterium avium</i> ATCC 15769						✓	✓
EN 14563:2009 (Phase 2, Step 2)	Quantitative Carrier test	<i>Mycobacterium terrae</i> ATCC 15755 <i>Mycobacterium avium</i> ATCC 15769	4 log ₁₀	>4 log ₁₀	Dr. Brill + Partner GMBH Laboratory, Germany	Clean	1 min	✓	✓	
								✓	✓	
Virucidal	EN 14476:2019 (Phase 2, Step 1)	Quantitative suspension test	<i>Poliovirus</i> Type 1, LSc-2aba	4 log ₁₀	>6.33 log ₁₀	Labor-Enders Laboratory, Germany	Clean	30 sec	17.5 ppm	✓
			<i>Adenovirus</i> Type 5, strain Adenoid 75, ATCC VR-5		>5.33 log ₁₀				17.5 ppm	✓
			<i>Murine Norovirus</i> Strain S99		>5.50 log ₁₀				17.5 ppm	✓
			<i>Polyomavirus</i> SV40		>4.50 log ₁₀				17.5 ppm	✓
	EN 16777:2018	Carrier Test	<i>Adenovirus</i> Type 5	4 log ₁₀	>6.51 log ₁₀	Labor-Enders Laboratory, Germany	Clean	2 min	110 ppm	✓
	EN16777:2018	Carrier Test	<i>Murine Norovirus</i>	4 log ₁₀	>6.19 log ₁₀	Dr. Brill + Partner GMBH Laboratory, Germany	Clean	2 min	✓	✓
	EN 14675:2015 (Phase 2, Step 1)	Quantitative suspension test	<i>IPN Virus</i> Salmonid fish viral infection (H10N7)	4 log ₁₀	>4 log ₁₀	Norwegian Veterinary Institute, Norway	Clean	5 min	✓	✓
				4 log ₁₀	>4 log ₁₀		Dirty	5 min	✓	✓
	EN 14349:2007 (Phase 2, Step 1)	Quantitative Carrier test	<i>Avian influenza virus</i> , (H10N7)	4log ₁₀	>4.2 log ₁₀	SVA	clean	1 min		✓
	EN 14349:2007 (Phase 2, Step 2)	Quantitative Carrier test	<i>PPV</i> , strain 893/76	4log ₁₀	>5.3 log ₁₀	SVA	Clean	5 min	✓	✓
	EN 14476:2013+A2:2019	Suspension test	<i>Feline coronavirus (FCoV)</i>	4 log ₁₀	>4.3 log ₁₀	MSL solution, UK	Clean	1 min	✓	✓
	EN 14476:2013+A2:2019	Suspension test	<i>Bovine coronavirus (BCoV)</i>	4 log ₁₀	>5.5 log ₁₀	Dr. Brill + Partner GMBH Laboratory, Germany	Clean	30 sec	50 ppm	✓
EN 14476:2013+A2:2019	Suspension test	<i>SARS-CoV-2-Covid-19</i>	4 log ₁₀	>5.6 log ₁₀	SVA	Clean	30 sec	50 ppm	✓	
Fungicidal	EN 13624:2013 (Phase 2, Step 1)	Quantitative suspension test	<i>Candida albicans</i> ATCC 10231	4 log ₁₀	>4 log ₁₀	Dr. Brill + Partner GMBH Laboratory, Germany	Clean	1 min	✓	✓
			<i>Aspergillus brasiliensis</i> ATCC 16404						✓	✓
	EN 14562:2006 (Phase 2, Step 2)	Quantitative Carrier test	<i>Aspergillus brasiliensis</i> (niger) / black mold ATCC 16404	4 log ₁₀	>4 log ₁₀	Mikrolab Stockholm AB	Clean/Dirty	5 min	✓	✓
	EN 14562:2006 (Phase 2, Step 2)	Quantitative Carrier test	<i>Candida albicans</i> ATCC 10231	4 log ₁₀	>4 log ₁₀	Dr. Brill + Partner GMBH Laboratory, Germany	Clean	1 min	✓	✓
	EN 14562:2006 (Phase 2, Step 2)	Quantitative Carrier test	<i>Aspergillus brasiliensis</i> (niger) / black mold ATCC 16404	4 log ₁₀	>4 log ₁₀	Dr. Brill + Partner GMBH Laboratory, Germany and	Clean	2 min		✓
4 log ₁₀				>4 log ₁₀	Dirty		2 min	✓	✓	
EN 16615:2015 (Phase 2, step 2)	4-Field test	<i>Candida albicans</i> ATCC 10231	4 log ₁₀	>5 log ₁₀	RISE Research Institutes of Sweden	Clean	2 min	✓	✓	
Gram-Negative	EN 13727:2014 (Phase 2, Step 1)	Quantitative suspension test	<i>Pseudomonas aeruginosa</i> ATCC 15442	5 log ₁₀	>5.11 log ₁₀	Dr. Brill + Partner GMBH Laboratory, Germany	Clean	1 min	✓	✓
	EN 14561:2006 (Phase 2, Step 2)	Carrier test	<i>Pseudomonas aeruginosa</i> ATCC 15442	5 log ₁₀	>5.11 log ₁₀	Dr. Brill + Partner GMBH Laboratory, Germany	Clean	1 min	✓	✓
	EN 13727:2015 (Phase 2, Step 2)	Quantitative suspension test	<i>Pseudomonas aeruginosa</i> ATCC 15442	5 log ₁₀	>5 log ₁₀	Food Safety Laboratory, Chung-Ang University, Seoul, South Korea	Dirty	2 min	✓	✓

	Test norm	Test type	Organism	Log reduction required	Log reduction achieved	Laboratory	Clean or dirty	Contact time	LC Std 400-200 PPM	LC Plus 650-400 PPM
	EN 13727:2015 (Phase 2, Step 2)	Quantitative suspension test ⁵	Escherichia coli ATCC 25922	5 log ₁₀	>5 log ₁₀	Internal test at Örebro University Hospital, Sweden	Clean/Dirty	2 min	✓	✓
	EN 13727:2015 (Phase 2, Step 2)	Quantitative suspension test	Campylobacter jejuni ATCC 33560	5 log ₁₀	>5 log ₁₀	Internal test at Örebro University Hospital, Sweden	Clean/Dirty	2 min	✓	✓

Gram-Negative Bacteria	EN 13727:2015 (Phase 2, Step 2)	Quantitative suspension test	Salmonella typhimurium ATCC 14028	5.11 log ₁₀	>5.76 log ₁₀	Internal test at Örebro University Hospital, Sweden	Clean	2 min	✓	✓
			5.11 log ₁₀	>5.76 log ₁₀	Dirty		2 min	✓	✓	
			Legionella pneumophila ATCC 33152	5.3 log ₁₀	>5.76 log ₁₀		Clean	2 min	✓	✓
			5.3 log ₁₀	>5 log ₁₀	Dirty		2 min	✓	✓	
	EN 14349:2012 (Phase 2, Step 2)	Quantitative suspension test	Aeromonas salmonicida ATCC 14174	5 log ₁₀	>5.65 log ₁₀	Internal test at Örebro University Hospital, Sweden	Clean	2 min	✓	✓
			>5.65 log ₁₀		Dirty		2 min	✓	✓	
			Yersinia ruckeri ATCC 29473		>5 log ₁₀		Clean	2 min	✓	✓
	>5 log ₁₀	Dirty	2 min	✓	✓					
	EN 13727:2015 (Phase 2, Step 2)	Quantitative suspension test	Klebsiella pneumoniae (ESBL) CCUG 54718	5 log ₁₀	> 5.76 log ₁₀	Internal test at Örebro University Hospital	Clean/Dirty	2 min	✓	✓
			Acinetobacter baumannii (Clinical strain)						✓	✓
	EN 16615:2015 (Phase 2, step 2)	4-Field test	Pseudomonas aeruginosa ATCC 15442	5 log ₁₀	>5 log ₁₀	RISE Research Institutes of Sweden	Clean	2 min	✓	✓

Gram-Positive Bacteria	EN 13727:2014 (Phase 2, Step 1)	Suspension test	Staphylococcus aureus ATCC 6538	5 log ₁₀	>5 log ₁₀	Dr. Brill + Partner GMBH Laboratory, Germany	Clean	1 min	✓	✓
	EN 13727:2015 (Phase 2, Step 2)	Suspension test	Staphylococcus aureus ATCC 6538	5 log ₁₀	>5 log ₁₀	Food Safety Laboratory, Chung-Ang University, Seoul, South Korea	Dirty	2 min	✓	✓
	EN 14561:2006 (Phase 2, Step 2)	Carrier t test	Staphylococcus aureus ATCC 6538	5 log ₁₀	>5 log ₁₀	Dr. Brill + Partner GMBH Laboratory, Germany	Clean	1 min	✓	✓
	EN 13727:2014 (Phase 2, Step 1)	Quantitative suspension test	Enterococcus hirae ATCC 10541	5 log ₁₀	>5.11 log ₁₀	Dr. Brill + Partner GMBH Laboratory, Germany	Clean	1 min	✓	✓
	EN 14561:2006 (Phase 2, Step 2)	Quantitative Carrier test	Enterococcus hirae ATCC 10541	5 log ₁₀	>5.11 log ₁₀	Dr. Brill + Partner GMBH Laboratory, Germany	Clean	1 min	✓	✓
	EN 13727: 2015 (Phase 2, Step 2)	Quantitative suspension test	Enterococcus hirae ATCC 10541	5 log ₁₀	>5 log ₁₀	Food Safety Laboratory, Chung-Ang University, Seoul, South Korea	Dirty	2 min	✓	✓
	EN 13727:2015 (Phase 2, Step 2)	Quantitative suspension test	Listeria monocytogenes CCUG 51681	5 log ₁₀	>5 log ₁₀	Internal test at Örebro University Hospital	Clean/dirty	2 min	✓	✓
		Quantitative suspension test	Streptococcus equi CCUG 37782	5 log ₁₀	>5 log ₁₀	Internal test at Örebro University Hospital	Clean	2 min	✓	✓
	5 log ₁₀	>5 log ₁₀	Dirty	2 min	✓	✓				
	EN 14349:2012 (Phase 2, Step 2)	Quantitative suspension test	Carnobacterium piscicola ATCC 3586	4 log ₁₀	>5 log ₁₀	Internal test at Örebro University Hospital	Clean	2 min	✓	✓
				4 log ₁₀	>5 log ₁₀		Dirty	2 min	✓	✓
	EN 16615:2015 (Phase 2, step 2)	4-Field test	Staphylococcus aureus ATCC 6538	5 log ₁₀	>5 log ₁₀	RISE Research Institutes of Sweden	Clean	2 min	✓	✓
Enterococcus hirae ATCC 10541			✓						✓	
EN 13727:2015 (Phase 2, Step 2)	Quantitative suspension test	Enterococcus faecium (VRE) CCUG 56431	5 log ₁₀	> 5.75 log ₁₀	Internal test at Örebro University Hospital	Clean/Dirty	2 min	✓	✓	

Parasites	N/A	In vitro sporulation method for Coccidia	Coccidia spp		N/A	VidiLab, Sweden	Dirty	N/A		✓
	Salmon lice	In vitro	Lepeophtheirus salmonis	N/A	N/A	ILAB, Norway	N/A	1 min	100 ppm	✓
	N/A	In Vitro	Gyrodactylus salaris	N/A	N/A	Norwegian Veterinary Institute, Norway	N/A	10 sec / 1 min	200 / 100 ppm	✓
	DNA Analysis	In Vitro	Plasmid DNA	N/A	N/A	SLU	Clean	10 / 2 min	✓	✓

¹Initial **bacterial** spores 10⁶

²Initial **bacterial** spores 10⁸

³Initial **bacterial** spores 10⁹ and different bacteria strain

⁴Initial **bacterial** spores 10⁸ and 200 PPM

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

⁶These bacteria: *Bacillus subtilis*, *Bacillus cereus* and *Clostridium difficile* were tested for 400 PPM for 2 minutes.

Third party test partners



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