

Product	Classification	Bactericidal	Fungicidal	Viruses enveloped	Viruses non- enveloped	Mycobacteria - TB	Spores
Chlorine Disinfection	2.1	EN13727:2012 yes	EN13624:2013 yes	*	EN14476:2013 yes all viruses	EN14348:2005 yes	EN13704:2002 yes
	2.2	EN14561:2006 yes	EN14562:2006 yes	*		EN14563:2008 yes	
Comp. of the invention comprising Vitamin C	2.1	EN13727:2012 yes	EN13624:2013 yes	*	EN14476:2013 yes all viruses	EN14348:2005 yes	EN13704:2002 yes
	2.2	EN14561:2006 yes	EN14562:2006 yes	*		EN14563:2008 yes	
Ethanol 70%	2.1	EN13727:2012 yes	EN13624:2013 yes Only Cand. Alb.	*	EN14476:2013 no all viruses	EN14348:2005 yes	EN13704:2002 no
	2.2	EN14561:2006 yes	EN14562:2006 yes Only Cand. Alb.	*		EN14563:2008 yes	
Comp. of the invention without Vitamin C	2.1	EN13727:2012 yes	EN13624:2013 yes Only Cand. Alb.	*	EN14476:2013 yes all viruses	EN14348:2005 yes	EN13704:2002 yes C.D. 60 min.
	2.2	EN14561:2006 yes	EN14562:2006 yes Only Cand. Alb.	*		EN14563:2008 yes	
PHMB	2.1	EN13727:2012 yes	EN13624:2013 yes Only Cand. Alb.	*	EN14476:2013 no all viruses	EN14348:2005 no	EN13704:2002 no
	2.2	EN14561:2006 yes	EN14562:2006 yes Only Cand. Alb.	*		EN14563:2008 no	

* No test exists – when a product has bactericidal effect it also has effect on enveloped viruses.

Figure 1

Category	Type	Comp. of the invention without Vitamin C	Comp. of the invention comprising Vitamin C
		Contact time	Contact time
Gram Positive Bacteria	Staphylococcus aureus, MRSA, Enterococci	1 min	1 min
Gram Negative Bacteria	Pseudomonas aeruginosa, E. coli Legionella	1 min 2 min	1 min 2 min
Fungi	Candida, Aspergillus brasiliensis	5 min	5 min 30 min
Enveloped Viruses	Vaccinia, Ebola, Influenza (H1N1), Hepatitis B/C, BVDV	2 min	2 min
Non-enveloped Viruses	Norovirus, Adenovirus, poliovirus, Rota	2 min	2 min
Mycobacterium	Terrae and avium	10 min	10 min
Spores	Bacillus subtilis, cereus Clostridium difficile	60 min	15 min 10 min

Figure 2