



17 April 2020

**Efficacy Summary for Virex II 256 -  
Hospital Grade Disinfectant, with claims, clean conditions – AUST R 153031**

Count	Test Organism	Test Method	Test Condition	Results
1	<i>Acinetobacter calcoaceticus</i> , (ATCC 9957)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
2	<i>Bordetella bronchiseptica</i> , (ATCC 10580)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
3	<i>Enterococcus faecalis</i> (ATCC 19433)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
4	<i>Enterococcus hirae</i> (ATCC 10541)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
5	<i>Haemophilus influenza</i> , (ATCC 10211)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
6	<i>Legionella pneumophila</i> , (ATCC 33153)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
7	<i>Listeria monocytogenes</i> , (ATCC 15313)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
8	<i>Micrococcus luteus</i> , (ATCC 4698)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
9	<i>Micrococcus luteus</i> , (ATCC 14452)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
10	<i>Micrococcus sedentarius</i> , (ATCC 27573)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
11	<i>Neisseria gonorrhoea</i> , (ATCC 43069)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
12	<i>Staphylococcus aureus</i> , (ATCC 25923)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
13	<i>Staphylococcus aureus</i> Toxic Shock), (ATCC33586)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 60 carriers	No positive carriers
14	<i>Staphylococcus epidermis</i> , (ATCC 14990)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers



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15	<i>Staphylococcus haemolyticus</i> , (ATCC 22970)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
16	<i>Staphylococcus agalactiae</i> , (ATCC 13813)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
17	<i>Streptococcus mutans</i> , (ATCC 25175)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
18	<i>Streptococcus pyogenes</i> , (ATCC 19615)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
19	<i>Vibrio cholera</i> , (ATCC 11623)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
20	<i>Escherichia coli</i> NCTC 8196	Option B, TGA Test	Minimum 5% blood serum and water hardness of 340ppm	Pass
21	<i>Proteus vulgaris</i> NCTC 4635	Option B, TGA Test	Minimum 5% blood serum and water hardness of 340ppm	Pass
22	<i>Pseudomonas aeruginosa</i> NCTC 6749	Option B, TGA Test	Minimum 5% blood serum and water hardness of 340ppm	Pass
23	<i>Staphylococcus aureus</i> NCTC 4163	Option B, TGA Test	Minimum 5% blood serum and water hardness of 340ppm	Pass
24	<i>Enterococcus faecalis</i> , (ATCC 51299) Resistant to Vancomycin (VRE)	AOAC Use Dilution Test	10 min. contact time, 10% soil load, 400 ppm water hardness, 10 carriers	No positive carriers
25	<i>Staphylococcus aureus</i> , (ATCC 14154) Resistant to Erythromycin, Penicillin, Streptomycin, Tetracycline	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
26	<i>Staphylococcus aureus</i> , (ATCC 33592) Resistant to Methicillin (MRSA), Gentamicin (GRSA)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
27	<i>Staphylococcus epidermis</i> , (ATCC 51625) Resistant to Methicillin (MRSE)	AOAC Use Dilution Test	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness, 10 carriers	No positive carriers
28	Adenovirus Type 2, (VR-2)	EPA Virucidal Teat Method	1:256 dilution ; 10min contact time, 5% soil load, 400ppm water hardness	$\geq 3.0 \log_{10}$ reduction
29	SARS-CoV-2 (COVID-19 virus) (Human Coronavirus 229E, (ATCC VR-740) as surrogate)	EPA Virucidal Teat Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	$\geq 4.0 \log_{10}$ reduction



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30	<i>Canine Coronavirus ATCC VR-809, Strain 1-71</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 5% soil load, 200ppm water hardness	$\geq 3.0 \log_{10}$ reduction
31	<i>Cytomegalovirus, (VR-538)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	$\geq 4.0 \log_{10}$ reduction
32	<i>Herpes simplex Type 1, (VR-733)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	$\geq 4.0 \log_{10}$ reduction
33	<i>Herpes simplex Type 2, (VR-734)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	$\geq 4.25 \log_{10}$ reduction
34	<i>Hepatitis B Virus (HBV)</i>	EPA Virucidal Test Method – Duck Hepatitis B Virus	1:256 dilution ; 5 min. contact time, 100% duck serum, 400ppm water hardness	$\geq 3.75 \log_{10}$ reduction
35	<i>HIV-1 (AIDS virus)</i>	TGA Suspension Test	1:256 dilution; 1 minute contact time, 50% human whole blood; 400ppm water hardness	Complete inactivation
34	<i>Influenza Type A<sub>2</sub>/ HongKong, (ATCC VR-544)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	$\geq 3.0 \log_{10}$ reduction
35	<i>Parainfluenza Type 3</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	$\geq 4.5 \log_{10}$ reduction
36	<i>Respiratory syncytial virus, (VR-26)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	$\geq 4.0 \log_{10}$ reduction
37	<i>Rotavirus, (Strain WA)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	$\geq 5.5 \log_{10}$ reduction
38	<i>Vaccinia virus (small pox vaccine virus) , (VR-119)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	$\geq 6.0 \log_{10}$ reduction
39	<i>Avian Infectious bronchitis (IBV), (VR-2)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	$\geq 4.0 \log_{10}$ reduction
40	<i>Avian Influenza, H3N2 (VR-2072)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	$\geq 3.0 \log_{10}$ reduction
41	<i>Canine distemper, (VR-128)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	$\geq 6.25 \log_{10}$ reduction
42	<i>Feline viral rhinotracheitis, (VR-636)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	$\geq 5.5 \log_{10}$ reduction
43	<i>Infectious bovine rhinotracheitis, (VR-188)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	$\geq 4.5 \log_{10}$ reduction



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44	<i>New Castle Disease Virus, (VR-108)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	>4.0 log <sub>10</sub> reduction
45	<i>Pseudorabies Virus, (VR-135)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	>5.25 log <sub>10</sub> reduction
46	<i>Transmissible gastroenteritis virus (TGE), (U of Minn. Strain)</i>	EPA Virucidal Test Method	1:256 dilution ; 10min contact time, 10% soil load, 400ppm water hardness	>4.5 log <sub>10</sub> reduction
47	<i>Aspergillus niger*</i> , (ATCC 6275)	EPA Hard Surface Mildew-Fungistatic Test	1:256 dilution , 400ppm water hardness, 10 glazed ceramic tiles, 7 day observation	No growth
48	<i>Aspergillus niger*</i> , (ATCC 6275)	AOAC Fungicidal Use Dilution Test	1:256 dilution ; 10min contact time, 5% soil load, 400ppm water hardness, 10 carriers	No positive carriers
49	<i>Candida albicans, (ATCC 10231)</i>	AOAC Fungicidal Use Dilution Test	1:256 dilution ; 10min contact time, 5% soil load, 400ppm water hardness, 10 carriers	No positive carriers

\*Fungi - controls fungi/mould/mildew