

Efficacy summary Virkon™ S : bacteria

Organism	Strain(where stated)	Ref. No	Country	Comments	Pass Dilution(s)/ Concentration(s)
<i>Actinobacillus pleuropneumoniae</i>	not specified	29	England	laboratory own	1:200
<i>Actinobacillus pleuropneumoniae</i>	ATCC 43336	144	USA	AOAC	1:100
<i>Actinobacillus pleuropneumoniae</i>	field isolate	35	Japan	laboratory own	1:1000
<i>Actinobacillus pleuropneumoniae</i>	ATCC 27089	272	USA	AOAC	1:100
<i>Aeromonas hydrophila</i>	not specified	41	Finland	laboratory own	1:200
<i>Aeromonas salmonicida</i>	Subsp achromogenes	41	Finland	laboratory own	1:200
<i>Aeromonas salmonicida</i>	Subsp salmonicida	41	Finland	laboratory own	1:100
<i>Aeromonas salmonicida</i>	Subsp achromogenes	88	Sweden	laboratory own	1:100
<i>Aeromonas salmonicida</i>	Subsp salmonicida ATCC 14174	191	Norway	laboratory own	1:200
<i>Bacillus cereus</i>	ATCC 14579	122	USA	laboratory own	1:100
<i>Bacillus cereus</i>	ATCC 14579	157	USA	laboratory own	1:100
<i>Bacillus subtilis</i>	ATCC 19659	130	USA	laboratory own	1:100
<i>Bacillus subtilis</i>	NCIMB 8058	130	USA	laboratory own	1:100
<i>Bordetella avium</i>	not specified	70	USA	AOAC	1:100
<i>Bordetella bronchiseptica</i>	not specified	29	England	laboratory own	1:150
<i>Bordetella bronchiseptica</i>	not specified	70	USA	AOAC	1:100
<i>Brachyspira hyodysenteriae</i>	2 strains; ATCC 27164 + field strain	219	Czech Republic	laboratory own	>1:3333
<i>Brachyspira pilosicoli</i>	ATCC 51139	219	Czech Republic	laboratory own	>1:3333
<i>Brucella abortus</i>	ATCC 4315	126	USA	laboratory own	1:100
<i>Campylobacter coli</i>	Strain 169	23	Sweden	laboratory own	1:100
<i>Campylobacter jejuni</i>	Strain 167	23	Sweden	laboratory own	1:100
<i>Campylobacter jejuni</i>	ATCC 29428	145	USA	modified AOAC	1:100
<i>Campylobacter jejuni</i>	type 365	227	Holland	EN1656	1:200
<i>Campylobacter pyloridis*</i>	GBL775	151	USA	AOAC	1:100
<i>Chlamydia psittaci</i>	VR-125 (Strain 6BC)	133	USA	AOAC	1:100
<i>Clavibacter michiganensis</i>	subsp. michiganensis	167	Canada	laboratory own	1:500
<i>Clavibacter michiganensis</i>	subsp. sepedonicus	42	Finland	laboratory own	1:100
<i>Clostridium perfringens</i>	ATCC13124	129	USA	AOAC	1:100
<i>Clostridium perfringens</i>	ATCC13124	169	USA	AOAC	1:100
<i>Coxiella burnetii</i>	Nine mile strain RS493	241	Holland	EN1656	1:100 / 1:50
<i>Dermatophilus congolensis</i>	ATCC 14637	132	USA	AOAC	1:100
<i>Enterococcus faecium</i>	ATCC 10541	158	England	EST	1:100
<i>Enterococcus hirae</i>	CIP 58.55	148	France	AFNOR NF T 72-171	1:200
<i>Enterococcus hirae</i>	CIP 58.55	149	France	AFNOR NF T 72-190	1:100
<i>Enterococcus hirae</i>	ATCC 10541	220	Italy	EN1656	1:100
<i>Enterococcus hirae</i>	Eh/FH64/a	194	UK	EN1276	1:100
<i>Enterococcus hirae</i>	CIP 58.55	196	France	EN1276	1:200
<i>Erwinia amylovora</i>	ICMP 9148	77	New Zealand	laboratory own	1:250
<i>Erysipelothrix rhusiopathiae</i>	not specified	70	USA	laboratory own	1:100
<i>Erysipelothrix rhusiopathiae</i>	field isolate	35	Japan	laboratory own	1:1000
<i>Escherichia coli</i>	Strain NCTC 8196	45	Sweden	laboratory own	1:100
<i>Escherichia coli</i>	Strain ATCC 11229	78	England	laboratory own	1:200
<i>Escherichia coli</i>	ATCC 11229	117	USA	AOAC	1:100
<i>Escherichia coli</i>	ATCC 11229	118	USA	AOAC	1:200
<i>Escherichia coli</i>	ATCC 11229	130	USA	AOAC	1:100
<i>Escherichia coli</i>	NCIMB 9517	130	USA	AOAC	1:100
<i>Escherichia coli</i>	CIP 54.127	148	France	AFNOR NF T 72-171	1:200
<i>Escherichia coli</i>	CIP 54.127	149	France	AFNOR NF T 72-190	1:100
<i>Escherichia coli</i>	GBL 642	151	USA	AOAC	1:100
<i>Escherichia coli</i>	Strain O157	164	England	laboratory own	1:100
<i>Escherichia coli</i>	not specified	177	Canada	laboratory own	1:100
<i>Escherichia coli</i>	EcFH/64/a	194	UK	EN1276	1:100
<i>Escherichia coli</i>	strain O157	194	UK	EN1276	1:100
<i>Escherichia coli</i>	strain CIP 54.127	196	France	EN1276	1:200
<i>Escherichia coli</i>	Bacteriophage T2 with E coli B	198	France	AFNOR 72-181	1:1000
<i>Escherichia coli</i>	Bacteriophage MS 2 with E coli HfrH	198	France	AFNOR 72-181	1:500
<i>Escherichia coli</i>	Bacteriophage OX 174 with E coli ATCC 13706	198	France	AFNOR 72-181	1:2000
<i>Escherichia coli</i>	ATCC 11229	202	USA	AOAC	1:100
<i>Escherichia coli</i>	field isolate	35	Japan	laboratory own	1:1000
<i>Escherichia coli</i>	ESBL NCTC 11560	258	UK	EN1656	1:100
<i>Haemophilus somnus</i>	not specified	70	USA	AOAC	1:100

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Klebsiella pneumoniae	GBL 132	151	USA	AOAC	1:100
Klebsiella pneumoniae	ATCC 4352	212	USA	AOAC	1:100
Klebsiella pneumoniae	ESBL NCTC 13368	258	UK	EN1656	1:100
Lawsonia intracellularis	2 strains	163	Scotland	laboratory own	1:100
Lawsonia intracellularis	field isolate	245	Australia	laboratory own	1:100
Legionella pneumophila	NCTC 11192	32	England	laboratory own	1:5000
Listeria monocytogenes	not specified	70	USA	AOAC	1:100
Listeria monocytogenes	lux AD recombinant	120	England	laboratory own	1:100
Listeria monocytogenes	lux AD recombinant	120	England	laboratory own	1:1400
Listeria monocytogenes	ATCC 19117	190	USA	AOAC	1:100
Listeria monocytogenes	LmFH66/a	194	UK	laboratory own	1:100
Moraxella bovis		70	USA	AOAC	1:100
Mycoplasma gallisepticum	Strain 56	4	England	laboratory own	1:50
Mycoplasma gallisepticum	not specified	49	USA	laboratory own	1:100
Mycoplasma hyorhinis	not specified	29	England	laboratory own	1:800
Mycoplasma mycoides	3 strains B102 strain Afade and NCTC 10114	186	UK	laboratory own	1:200
Mycoplasma mycoides	3 strains (Portugal B103) Africa (strain Afade) NCTC (10114)	189	UK	laboratory own	1:200
Ornithobacterium rhinotracheale	not specified	177	Canada	laboratory own	1:100
Pasteurella haemolytica	not specified	70	USA	AOAC	1:100
Pasteurella multocida	Strain CB169	24	England	laboratory own	1:150
Pasteurella multocida	ATCC 12947	125	USA	AOAC	1:100
Pasteurella multocida	not specified	177	Canada	laboratory own	1:100
Pasteurella multocida	field isolate	35	Japan	laboratory own	1:1000
Proteus mirabilis	ATCC 14153	158	England	EST	1:100
Proteus vulgaris	ATCC 13315	220	Italy	EN1656	
Proteus vulgaris	Strain NCTC 4635	61	England	laboratory own	Powder
Proteus vulgaris	Strain NCTC 4635	67	England	laboratory own	Powder
Providencia stuartii	EMAI source strain	246	Australia	laboratory own	1:200
Pseudomonas aeruginosa	Strain NCTC 6749	67	England	laboratory own	Powder
Pseudomonas aeruginosa	ATCC 15442	75	England	AOAC	1:50
Pseudomonas aeruginosa	ATCC 15442	113	USA	AOAC	1:200
Pseudomonas aeruginosa	ATCC 15442	114	USA	AOAC	1:100
Pseudomonas aeruginosa	ATCC 15442	130	USA	laboratory own	1:100
Pseudomonas aeruginosa	NCIMB 10421	130	USA	laboratory own	1:100
Pseudomonas aeruginosa	CIP A22	148	France	AFNOR NF T 72-171	1:200
Pseudomonas aeruginosa	CIP A22	149	France	AFNOR NF T 72-190	1:100
Pseudomonas aeruginosa	ATCC15442	150	USA	AOAC	1:100
Pseudomonas aeruginosa	NCIMB 10421	157	USA	laboratory own	1:100
Pseudomonas aeruginosa	Pa FH 72/a	194	UK	EN1276	1:100
Pseudomonas aeruginosa	CIP103467	196	France	EN1276	1:200
Pseudomonas aeruginosa	ATCC 15442	158	England	EST	1:100
Pseudomonas aeruginosa	ATCC 15442	220	Italy	EN1656	1:100
Pseudomonas aeruginosa	field isolate	35	Japan	laboratory own	1:1000
Pseudomonas aeruginosa	ATCC 15442	257	USA	Biofilm study	1:100
Pseudomonas anguilliseptica		88	Sweden	laboratory own	1:100
Renibacterium salmoninarum	not specified	88	Sweden	laboratory own	1:100
Salmonella 4,12,b	not specified	65	Denmark	laboratory own	1:100
Salmonella arizona	not specified	177	Canada	laboratory own	1:100
Salmonella choleraesuis	ATCC 10708	75	England	AOAC	1:50
Salmonella choleraesuis	ATCC 23564	146	USA	AOAC	1:100
Salmonella choleraesuis	ATCC 10708	150	USA	AOAC	1:100
Salmonella choleraesuis	ATCC 23564(serotype typhimurium)	152	USA	AOAC	1:100
Salmonella enteritidis	Phage type 4	28	England	laboratory own	1:100
Salmonella enteritidis	not specified	70	USA	AOAC	1:50
Salmonella enteritidis	NCTC 13665	weblink	England	DEFRA approval	1:100
Salmonella serovar gallinarum-pullorum	field isolate	35	Japan	laboratory own	1:1000
Salmonella heidelberg	not specified	65	Denmark	laboratory own	1:15

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Salmonella indiana	not specified	65	Denmark	laboratory own	1:15
Salmonella llandorf	not specified	65	Denmark	laboratory own	1:15
Salmonella montevideo	not specified	65	Denmark	laboratory own	1:15
Salmonella thomastown	not specified	65	Denmark	laboratory own	1:200
Salmonella typhimurium	Strain HT-2	35	Japan	laboratory own	1:500
Salmonella typhimurium	GBL 106	151	USA	AOAC	1:100
Salmonella typhimurium	DT104	165	England	pr EN1656	1:200
Salmonella typhimurium	ATCC 23564	202	USA	AOAC	1:100
Salmonella typhimurium	St FH 68/a	194	England	EN1276	1:100
Salmonella enteritidis	CVI-WUR-Lelystad strain	227	Holland	EN1656	1:200
Salmonella hadar	CVI-WUR-Lelystad strain	227	Holland	EN1656	1:200
Salmonella infantis	CVI-WUR-Lelystad strain	227	Holland	EN1656	1:200
Salmonella typhimurium	CVI-WUR-Lelystad strain	227	Holland	EN1656	1:200
Salmonella virchow	CVI-WUR-Lelystad strain	227	Holland	EN1656	1:200
Salmonella java	Salmonella paratyphi B biovar Java	195	Holland	EN1656	1:100
Serpulina hyodysenteriae *	Isolate P152	36	Scotland	laboratory own	1:400
Serpulina hyodysenteriae *	not specified	70	USA	AOAC	1:100
* The Treponemas have changed their name to the Serpulinas.					
Serratia marcescens	not specified	64	Canada	laboratory own	1:100
Shigella sonnei	ATCC 25931	121	USA	EPA	1:100
Staphylococcus aureus	ATCC 6538	31	Holland	AFNOR 72-171	1:100
Staphylococcus aureus	not specified	49	USA	AOAC	1:100
Staphylococcus aureus	ATCC 6538	75	England	laboratory own	1:50
Staphylococcus aureus	ATCC 6538	115	USA	AOAC	1:100
Staphylococcus aureus	ATCC 6538	116	USA	AOAC	1:200
Staphylococcus aureus	ATCC 6538	130	USA	laboratory own	1:100
Staphylococcus aureus	NCIMB 9518	130	USA	laboratory own	1:100
Staphylococcus aureus	CIP 53.154	148	France	laboratory own	1:2000
Staphylococcus aureus	CIP 53.154	149	France	AFNOR NF T 72-190	1:100
Staphylococcus aureus	ATCC 6538	150	USA	AOAC	1:100
Staphylococcus aureus	ATCC 6538	158	UK	EST	1:100
Staphylococcus aureus	Sa FH73/a	194	UK	EN1276	1:100
Staphylococcus aureus	CIP 4.83	196	France	EN1276	1:100
Staphylococcus aureus	not specified	177	Canada	laboratory own	1:100
Staphylococcus aureus	CIP 4.83	197	France	AFNOR NF T 72-190	1:100
Staphylococcus aureus	ATCC 6538	220	Italy	EN1656	1:100
Staphylococcus aureus	pig MRSA isolate	227	Holland	EN1656	1:100
Staphylococcus aureus	ATCC 6538	212	USA	AOAC	1:100
Staphylococcus aureus	field isolate	35	Japan	laboratory own	1:1000
Staphylococcus epidermidis	ATCC 12228	202	USA	AOAC	1:100
Staphylococcus epidermidis	ATCC 14990	106	Italy	laboratory own	1:100
Staphylococcus epidermidis	GBL 6	151	USA	AOAC	1:100
Staphylococcus intermedius	Noble 4060	147	UK	AOAC	1:200
Streptococcus equi	not specified	39	Scotland	laboratory own	1:100
Streptococcus equi	not specified	70	USA	AOAC	1:100
Streptococcus lactis	lactic 66 Strep lactis bacteriophage	198	France	AFNOR 72-181	1:4000
Streptococcus pyogenes	GBL 7	151	USA	AOAC	1:100
Streptococcus pyogenes	ATCC 11229	202	USA	AOAC	1:100
Streptococcus suis	Strain CB194	24	England	laboratory own	1:150
Streptococcus suis	field isolate	35	Japan	laboratory own	1:1000
Streptococcus suis	ATCC 43765	124	USA	AOAC	1:100
Streptococcus suis	NCTC 10234	252	UK	EN1656	1:400
Streptococcus zooepidemicus	not specified	39	Scotland	laboratory own	1:100
Taylorella (Haemophilus) equigenitalis	CEM 1574/87	68	Sweden	laboratory own	1:400
Taylorella (Haemophilus) equigenitalis	CEM 769/87	68	Sweden	laboratory own	1:400
Taylorella (Haemophilus) equigenitalis	CEM 3336/88	68	Sweden	laboratory own	1:400
Taylorella (Haemophilus) equigenitalis	CEM 486/91	68	Sweden	laboratory own	1:100
Taylorella (Haemophilus) equigenitalis	taylorella CEM	70	USA	AOAC	1:100

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Organism	Strain(where stated)	Ref. No	Country	Comments	Pass Dilution(s)/ Concentration(s)
Vibrio anguillarum	serotype 1	88	Sweden	laboratory own	1:100
Vibrio harveyi	VO22, VH1280	181	Thailand	laboratory own	2ppm
Vibrio spp.	LY, 4Y	181	Thailand	laboratory own	2ppm
Xanthomonas campestris	Isolate 90-222	159	Holland	laboratory own	1:100
Xanthomonas axonopodis	ATCC 49118	201	USA	AOAC	1:100
Yersinia enterocolitica	YeFH67/a	194	UK	EN1276	1:100
Yersinia ruckeri	not specified	41	Finland	laboratory own	1:50
Yersinia ruckeri	ATCC 29473	192	Norway	EN1276	1:100
Yersinia ruckeri	serotype 1	88	Sweden	laboratory own	1:100
	not specified				
ND = not declared					
Note: weblink where stated refers to UK DEFRA Disinfectants list of approved products					