

CCX-151 Efficacy Overview

EPA Registration # 61178-5
Revised Date: January 27, 2009

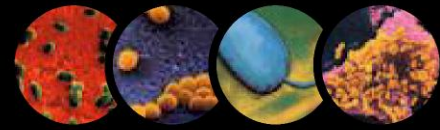
	Name of Organism	Category and/or Source	Contact Time
1	Acinetobacter calcoaceticus var anitratus	Gram negative clinical isolate	10 minutes
2	Acinetobacter calcoaceticus var Iwoffii	Gram negative clinical isolate	10 minutes
3	Actinobacillus pleuropneumoniae	ATCC 27088	10 minutes
4	Actinomyces pyogenes	ATCC 19411	10 minutes
5	Adenovirus type 2	ATCC VR-846	10 minutes
6	Aspergillus candidus	Environmental fungus	10 minutes
7	Aspergillus niger	Environmental fungus	10 minutes
8	Aspergillus niger	AIDS patient isolate	10 minutes
9	Avian Influenza/ Turkey Wisconsin Virus	ATCC VR-798	10 minutes
10	Bacillus cereus	ATCC 11778	10 minutes
11	Bacteroides fragilis	ATCC 43859	10 Minutes
12	Bordetella bronchiseptica	Gram negative clinical isolate	10 minutes
13	Bordetella bronchiseptica	ATCC 19395	10 minutes
14	Bovine viral diarrhoea virus (BVDV)	X-800 strain	10 Minutes
15	Brevibacterim ammoniagenes	GBL strain	10 minutes
16	Brevundimonas diminuta	Gram negative clinical isolate	10 minutes
17	Burkholderia cepacia	Gram negative clinical isolate	10 minutes
18	Burkholderia pickettii	ATCC 49729	10 minutes
19	Campylobacter jejuni	ATCC 29428	10 minutes
20	Candida albicans	AIDS patient isolate	10 minutes
21	Canine Coronavirus	ATCC VR-809, Strain 1-71	10 Minutes
22	Canine Distemper Virus	Onderstepoort strain	10 minutes
23	Canine Herpesvirus	ATCC VR-522	10 minutes
24	Chryseomonas luteola	ATCC 43273	10 minutes
25	Corynebacterium ammoniagenes (Brevibacterium ammoniagenes)	ATCC 6871	10 Minutes
26	Corynebacterium pseudotuberculosis	ATCC 19410	10 minutes
27	Cryptococcus neoformans	AIDS patient isolate	10 minutes
28	Cytomegalovirus	ATCC VR-284	10 minutes
29	Enterobacter aerogenes	ATCC 13048	1 Minute
30	Enterobacter agglomerans	Gram negative clinical isolate	10 minutes
31	Enterobacter agglomerans	Antibiotic resistant gram negative rod	10 minutes
32	Enterobacter cloacae	Gram negative clinical isolate	10 minutes
33	Enterobacter gergoviae	Gram negative clinical isolate	10 minutes
34	Enterobacter liquefaciens	Gram negative clinical isolate	10 minutes

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35	Enterococcus aerogenes	GBL strain	10 minutes
36	Enterococcus faecalis	ATCC 1786-2 VANCOMYCIN resistant -VRE Antibiotic resistant gram positive rod	10 minutes
37	Enterococcus faecalis	Gram positive clinical isolate	10 minutes
38	Enterococcus faecium	ATCC 6569	10 Minutes
39	Enterococcus hirae	ATCC 10541	10 Minutes
40	Equine Herpesvirus	ATCC VR-700	10 minutes
41	Equine Influenza Virus A	ATCC VR-297	10 minutes
42	Escherichia vulneris	Wildtype isolate	10 minutes
43	Escherichia coli	GBL 101 strains	10 minutes
44	Escherichia coli	Antibiotic resistant gram negative rod	10 minutes
45	Escherichia coli (Urinary)	Gram negative clinical isolate	10 minutes
46	Escherichia coli (Wound)	Gram negative clinical isolate	10 minutes
47	Escherichia coli 0157:H7	ATCC 35150	10 minutes
48	Feline Calcivirus	Upjohn Company strain	10 minutes
49	Feline Infectious Peritonitis Virus	ATCC VR-990	10 minutes
50	Flavobacterium meningosepticum	Gram negative clinical isolate	10 minutes
51	Haemophilus influenzae	ATCC 10211	10 Minutes
52	Hafnia alvei	Gram negative clinical isolate	10 minutes
53	HCV (Hepatitis C Virus)	BVDV Surrogate	10 Minutes
54	Herpes Simplex Virus type 1	ATCC VR-260	30 seconds
55	Herpes Simplex Virus type 2	ATCC VR-734	30 seconds
56	Human Coronavirus @ 98% Organic Soil Load Tolerance/400 ppm Hard Water	ATCC VR-740, Strain 229E	10 Minutes
57	Human Hepatitis B Virus (HHBV)	New York Blood Center: Dr. Fred Prince's laboratory	10 minutes
58	Human Immunodeficiency Virus (HIV-1) AIDS Virus	UMDNJ: Dr. James Oleske's laboratory	30 seconds
59	Infectious Bovine Rhinotracheitis (IBR) Virus	ATCC VR-188	10 minutes
60	Influenza A/Brazil (H1N1) Virus	New Jersey Department of Health strain	10 minutes
61	Influenza A/Victoria (H3N2) Virus	ATCC VR-822, Hoffman-LaRoche, Pool # 28	10 minutes
62	Influenza A2/Japan/305 (H2N2) Virus	ATCC VR-100	10 minutes
63	Influenza B Virus	Allen strain VR-102	10 minutes
64	Influenza C Virus	Taylor strain VR-104	10 minutes
65	Klebsiella oxytoca	Gram negative clinical isolate	10 minutes
66	Klebsiella oxytoca	Antibiotic resistant gram negative rod	10 minutes
67	Klebsiella pneumoniae	Antibiotic resistant gram negative rod	10 minutes
68	Klebsiella pneumoniae	Gram negative clinical isolate	10 minutes
69	Klebsiella Pneumoniae type 1	ATCC 700603 Antibiotic resistant gram negative rod	10 Minutes
70	Klebsiella pneumoniae	ATCC 4352	10 Minutes
71	Listeria monocytogenes	ATCC 984	10 minutes

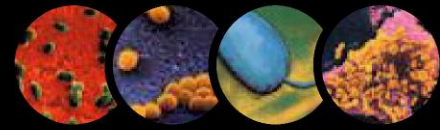
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72	Malessezia pachydermatis	AMMRL (canine origin)	10 minutes (~100% soil)
73	Measles Virus	ATCC VR-24	30 seconds
74	Micrococcus luteus	Gram positive clinical isolate	10 minutes
75	Morganella morganii	Gram negative clinical isolate	10 minutes
76	Morganella morganii	Antibiotic resistant gram negative rod	10 minutes
77	Newcastle Disease Virus	ATCC VR-109	10 minutes
78	Parainfluenza Virus type 1	ATCC VR-105	30 seconds
79	Pasteurella haemolyticus	ATCC 43823	10 minutes
80	Penicillium chermesinum	Environmental fungus	10 minutes
81	Penicillium oxalicum	Environmental fungus	5 minutes
82	Penicillium spinulosum	Environmental fungus	5 minutes
83	Poliovirus type 1	Chat strain	30 minutes
84	Porcine Parvovirus	ATCC VR-742	10 minutes
85	Porcine Respiratory & Reproductive Syndrome Virus	GBL strain	10 minutes
86	Porcine Rotavirus	ATCC VR-893	10 minutes
87	Proteus mirabilis	Gram negative clinical isolate	10 minutes
88	Proteus vulgaris	Gram negative clinical isolate	10 minutes
89	Pseudomonas aeruginosa	AIDS patient isolate	10 minutes
90	Pseudomonas aeruginosa	Gram negative clinical isolate	10 minutes
91	Pseudomonas aeruginosa	ATCC 15442	10 minutes
92	Pseudomonas aeruginosa	Multiple (8) Antibiotic resistant gram negative rods	10 Minutes
93	Pseudomonas fluorescens	Gram negative clinical isolate	10 minutes
94	Pseudomonas pseudomallei	Gram negative clinical isolate	10 minutes
95	Pseudomonas putida	Gram negative clinical isolate	10 minutes
96	Pseudomonas stutzeri	Gram negative clinical isolate	10 minutes
97	Pseudorabies Virus	ATCC VR-135	30 seconds
98	Respiratory Syncytial Virus (RSV)	ATCC VR-26, Strain Long	10 minutes
99	Rhodococcus equi	ATCC 6939	10 minutes
100	Rotavirus	Strain WA ,obtained from the University of Ottawa, Canada	10 Minutes
101	Salmonella choleraesuis @ 98% Organic Soil Load Tolerance/791 ppm Hard Water	ATCC 10708	10 minutes
102	Salmonella choleraesuis	ATCC 19214 Antibiotic resistant gram negative rod	10 Minutes
103	Salmonella typhi	ATCC 6539	10 minutes
104	Salomonella schottmuelleri	GBL strain	10 minutes
105	Serratia marcescens	Gram negative clinical isolate	10 minutes
106	Shigella dysenteriae	GBL strain	10 minutes
107	Sphingomonas paucimobilis	Gram negative clinical isolate	10 minutes
108	Staphylococcus aureus @ 98% Organic Soil Load Tolerance/791 ppm Hard Water	Gram positive clinical isolate	10 minutes
109	Staphylococcus aureus	Toxic shock strain	10 minutes

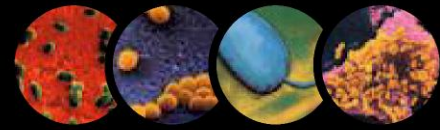
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110	Staphylococcus aureus	AIDS patient isolate	10 minutes
111	Staphylococcus aureus	ATCC 33591 METHICILLIN resistant	10 minutes
112	Staphylococcus aureus	ATCC 6338	10 Minutes
113	Staphylococcus auricularis	ATCC 33753	10 minutes
114	Staphylococcus capitis	Clinical isolate	10 minutes
115	Staphylococcus epidermidis	Gram positive clinical isolate	10 minutes
116	Staphylococcus epidermidis	Antibiotic resistant gram positive isolate	10 minutes
117	Staphylococcus hominis	ATCC 29885	10 minutes
118	Staphylococcus saprophyticus	Gram positive clinical isolate	10 minutes
119	Staphylococcus simulans	ATCC 11631	10 minutes
120	Stenotrophonas maltophilia	Clinical isolate	10 minutes
121	Streptococcus hemolyticus	Gram positive clinical isolate	10 minutes
122	Streptococcus equi var equi	ATCC 33398	10 minutes
123	Streptococcus equi var zoeoepidermicus	ATCC 43079	10 minutes
124	Streptococcus pneumoniae	AIDS patient isolate	10 minutes
125	Streptococcus pneumoniae (PRSP)	ATCC 51915	10 Minutes
126	Streptococcus pyogenes	ATCC 19615	10 minutes
127	Streptococcus pyogenes	Bird M3 Clinical Isolate	10 Minutes
128	Streptococcus salivarius	GBL strain	
129	T1 bacteriophage	ATCC 11303-B1	10 minutes
130	T4 bacteriophage	ATCC 11303-B4	10 minutes
131	Transmissible Gastroenteritis (TGE) Virus	ATCC VR-763	10 minutes
132	Trichophyton mentagrophytes @ ~100 % Organic Soil Load Tolerance/395 ppm Hard Water	ATCC 9533	10 minutes
133	Ulocladium sp.	Environmental fungus	5 minutes
134	Vaccinia Virus	Hoffmann LaRoche, Pool 57	10 minutes
135	Vesicular Stomatitis Virus	GBL strain	10 minutes
136	Yersinia enterocolitica	ATCC 23715	10 minutes

Efficacy Disclaimer:

All U.S. EPA accepted efficacy claims, are represented and relied on, only in the form of the current Master D-125, Public Places, CCX-151, Public Places Towelette labels, as posted under **White Papers**. Efficacy overviews of the respective list, are additionally inclusive, of a host of other Non-U.S. based data generating programs, including ongoing research and development studies, as well as a host of voluntary Non-GLP testing generation programs, as part of Microgen's continuing International Efficacy Stewardship Testing Program.

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