AIRX 75 ANTIBACTERIAL HEAVY DUTY CLEANER AND ODOR COUNTERACTANT — Efficacy Data

TUBERCULOCIDAL ACTIVITY

MYCOBACTERIUM BOVIS BCG OT 105401

Subculture Media	AIRX 75 Sample	No. of Exposed Carriers	No. of Carriers Showing Growth after 10 min. contact	Phenol Resistance Dilution	Phenol Resistance No. of Carriers Showing Growth 62 days	Phenol Resistance No. of Carriers Showing Growth 90 days
Modified Proskauer-Beck Medium	A	10	0	1:50	0	0
	B	10	0	1:75	0	0
Middlebrook 7H9 Broth	A	10	0	1:50	0	0
	B	10	0	1:75	10	10
Kirchners Medium	A	10	0	1:50	0	0
	B	10	0	1:75	5	6

METHOD USED:
AOAC Confirmative In Vitro Test for Determining Tuberculocidal Activity.

TEST CONDITIONS:
5% serum - 10 minute contact time - glass slide carrier substrates

CONCLUSION:
Under the conditions of this investigation AIRX 75 Antimicrobial Heavy Duty Spray Cleaner was tuberculocidal for *Mycobacterium bovis* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a tuberculocidal.

EFFECTIVE AGAINST EPA OFFICIAL TEST ORGANISMS FOR USE IN HOSPITALS

Organism	AIRX 75 Sample	No. of Carriers Exposed	No. of Carriers Positive	Phenol Resistance Dilution	Phenol Resistance Exposure Time vs. Growth 5 Min.	10 Min.	15 Min.
Staphylococcus aureus (ATCC 6538)	A	60	0	1:60	+	0	0
	B	60	0	1:70	+	+	+
	C	60	0				
Salmonella choleraesuis (ATCC 10708)	A	60	0	1:90	+	0	0
	B	60	0	1:100	+	+	+
	C	60	0				
Pseuodomonas aeruginosa PRD-10 (ATCC 15442)	A	60	0	1:80	+	0	0
	B	60	0	1:90	+	+	+
	C	60	0				

+ = growth 0 = no growth

METHOD USED:
AOAC Germicidal Spray Products as Disinfectants

TEST CONDITIONS:
5% serum - 10 minute contact time - glass slide carrier substrates - Model 4 Bakan 22/415 pump sprayer or equivalent

CONCLUSION:
Under the conditions of this investigation AIRX 75 Antimicrobial Heavy Duty Spray Cleaner is bactericidal for *Staphylococcus aureus, Salmonella choleraesuis and Pseudomonas aeruginosa* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.

EFFECTIVE AGAINST FOOD CONTAMINATING BACTERIA AND ANTIBIOTIC RESISTANT BACTERIA

Organism	AIRX 75 Sample	No. of Carriers Exposed	No. of Carriers Positive	Phenol Resistance Dilution	Exposure Time vs. Growth 5 Min.	10 Min.	15 Min.
Escherichia coli 0157:H7 (ATCC 35150)	A	10	0	A phenol control was not performed due to lack of data available for this strain of test organism.			
	B	10	0				
Enterococcus faecalis (Vancomycin resistant) (VRE) (ATCC 51229)	A	10	0	A phenol control was not performed due to lack of data available for this strain of test organism.			
	B	10	0				
Staphylococcus aureus (Methicillin resistant) (MRSA) (ATCC 33592)	A	10	0	A phenol control was not performed due to lack of data available for this strain of test organism.			
	B	10	0				
Staphylococcus aureus (Vancomycin intermediate resistant) (VISA) (HIP 5836)	A	10	0	A phenol control was not performed due to lack of data available for this strain of test organism.			
	B	10	0				

METHOD USED:
AOAC Germicidal Spray Products as Disinfectants

TEST CONDITIONS:
5% serum - 10 minute contact time - glass slide carrier substrates - Model 4 Bakan 22/415 pump sprayer or equivalent

CONCLUSION:
Under the conditions of this investigation AIRX 75 Antimicrobial Heavy Duty Spray Cleaner is bactericidal for *Escherichia coli 0157:H7 (ATCC 35150), Enterococcus faecalis (Vancomycin resistant) (VRE) ATCC 51229), Staphylococcus aureus (Methicillin resistant) (MRSA) (ATCC 33592)* and *Staphylococcus aureus (Vancomycin intermediate resistant) (VISA) (HIP 5836)* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.

EFFECTIVE AGAINST EPA OFFICIAL FUNGICIDAL TEST ORGANISMS

Organism	AIRX 75 Sample	No. of Carriers Exposed	No. of Carriers Positive	Phenol Resistance Dilution	Exposure Time vs. Growth 5 Min.	10 Min.	15 Min.
Trichophyton mentagrophytes (ATCC 9533)	A	60	0	1:60	+	0	0
	B	60	0	1:70	+	+	+
	C	60	0				

+ = growth 0 = no growth

METHOD USED:
AOAC Germicidal Spray Products as Disinfectants

TEST CONDITIONS:
5% serum - 10 minute contact time - glass slide carrier substrates - Model 4 Bakan 22/415 pump sprayer or equivalent

CONCLUSION:
Under the conditions of this investigation AIRX 75 Antimicrobial Heavy Duty Spray Cleaner is fungicidal for *Trichophton mentagrophytes* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungicide.

VIRUCIDAL ACTIVITY

Test Organism	AIRX 75 Sample	Titer Reduction (after 10 min. contact)
Human Immunodeficiency virus, $HTLV\text{-}III_{RF}$, strain of HIV-1 (associated with AIDS)	A	≥3.5 log
	B	≥3.5 log
Hepatitis B Virus (HBV)	A	≥3.0 log
	B	≥3.0 log
Poliovirus Type 1, strain Brunhilde (ATCC VR-1000)	A	≥3.25 log
	B	≥3.25 log
Canine Parvovirus (ATCC VR-2017)	A	≥3.0 log
	B	≥3.0 log

METHOD USED:
U.S. E.P.A. Pesticide Assessment Guidelines, subdivision G: Product performance, section 91-2(f), and section 91-30 (d), (e), November. 1982.

TEST CONDITIONS:
5% serum - 10 minute contact time - glass petri dish substrates

CONCLUSION:
Under the conditions of this investigation AIRX 75 Antimicrobial Heavy Duty Spray Cleaner is bactericidal for *Human Immunodeficiency Virus, $HTLV\text{-}iii_{RF}$, strain of HIV-1 (associated with AIDS), Hepatitis B Virus (HBV), Poliovirus Type 1, strain Brunhilde (ATCC VR-1000)* and *Canine Parvovirus (ATCC VR-2017)* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.