

AIRX[®] 109A

CONCENTRATE DISINFECTANT
CLEANER GERMICIDE, VIRUCIDE*,
ODOR COUNTERACTANT

Efficacy
Data

EPA REG. # 1839-97-44089

VIRUCIDAL DATA:

Test Method: *U.S. EPA Pesticide Assessment Guidelines, Subdivision G: Product Performance, 1982, Section 91-30, pp. 72-76.
† Virucide Assay (EPA, Federal Register 10, No. 123, 6/25/75, p. 26836)

Test Conditions: 0.75 oz/gal dilution, 10 minute contact time - ≥5% organic soil load - glass petri dish substrates.

Results:

Test Organism	Sample	Titer Reduction
Human Immunodeficiency Virus, HTLV-III _B strain of HIV-1* (associated with AIDS)	A	≥4.0 log
	B	≥4.0 log
Adenovirus Type 5 †	A	>3.0 log
	B	>3.0 log
Herpes Simplex Type 1 (Sabin) †	A	~4.0 log
	B	~4.0 log
* Pandemic 2009 H1N1 Influenza A Virus	(Refer to NOTE below).	
Influenza A ₂ (Japan 305/57) †	A	~7.5 log
	B	~7.5 log
Vaccinia (Wyeth) †	A	>3.5 log
	B	>3.5 log

Conclusion: Under the conditions of this investigation, AIRX 109A demonstrated virucidal activity against Human Immunodeficiency Virus (HIV-1), Adenovirus Type 5, Herpes Simplex Type 1 (Sabin), Influenza A2 (Japan 305/57), Pandemic H1N1 Influenza A Virus and Vaccinia (Wyeth) according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

NOTE: Per the EPA guidance document dated October 21, 2009, disinfectant products that bear label claims against human, avian, or swine influenza A virus, and have submitted and received approval of efficacy data to support these label claims, may include a label claim against the Pandemic 2009 H1N1 Influenza A Virus.

MILDEW FUNGISTATIC DATA:

Test Method: Hard Surface Mildew Fungistatic Test (Unofficial Protocol 10/27/06)

Test Organism: *Aspergillus niger* (ATCC 6275)

Test Conditions: 0.75 ounce/gallon dilution, tile substrates

Results:

Sample	No. of Exposed Tiles	No. of Tiles Showing Growth
AIRX 109A	10	0
Control	10	10

CONCLUSION: Under the conditions of this investigation, AIRX 109A demonstrated fungistatic activity against *Aspergillus niger* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungistat.

FUNGICIDAL DATA:

Test Method: AOAC Fungicidal Test

Test Organism: *Trichophyton mentagrophytes* (ATCC 9533)

Test Conditions: 0.75 ounce/gallon dilution, 5% organic soil load, 10 minute contact time, 20°C exposure temperature.

Results:

Sample	Exposure Time (min.) vs. Growth		
	5	10	15
A	10	0	0
B	10	0	0

CONCLUSION: Under the conditions of this investigation, RX 109A demonstrated **fungicidal** activity against *Trichophyton mentagrophytes* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungicide.

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EPA REG. # 1839-97-44089

DISINFECTION DATA:

Test Method: AOAC Use Dilution

Test Conditions: 0.75 ounce/gallon dilution, 5% organic soil load, 10 minute contact time, stainless steel carrier substrates, 20°C exposure temperature.

Results:

Test Organism	Sample	No. of Carriers	
		Exposed	Positive
Staphylococcus aureus (ATCC 6538)	A	60	0
	B	60	0
	C	60	0
Salmonella choleraesuis (ATCC 10708)	A	60	0
	B	60	1
	C	60	0
Pseudomonas aeruginosa (ATCC 15442)	A	60	0
	B	60	1
	C	60	0
Brevibacterium ammoniagenes (ATCC 6871)	A	10	0
	B	10	0
Enterobacter aerogenes (ATCC 13048)	A	10	0
	B	10	0
Escherichia coli (ATCC 11229)	A	10	0
	B	10	0
Klebsiella pneumoniae (ATCC 4352)	A	10	0
	B	10	0
Salmonella schottmuelleri (ATCC 8759)	A	10	0
	B	10	0
Shigella dysenteriae (ATCC 12180)	A	10	0
	B	10	0
Streptococcus faecalis (ATCC 10541)	A	10	0
	B	10	0
Streptococcus salivarius (ATCC 9222)	A	10	0
	B	10	0

Conclusion: Under the conditions of this investigations, AIRX 109A demonstrated **disinfectant** activity against *Staphylococcus aureus*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*, *Brevibacterium ammoniagenes*, *Enterobacter aerogenes*, *Escherichia coli*, *Klebsiella pneumoniae*, *Salmonella schottmuelleri*, *Shigella dysenteriae*, *Streptococcus faecalis*, *Streptococcus salivarius* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.