

Germicidal Spray Test Study Report NG6341

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Client Information			
Company Name:	Frontier Pharmaceutical	Sponsor:	Howard Alliger
E-mail:	Alge@FrontierPharm.com		
Test Information			
Test(s) Performed:	AOAC Germicidal Spray Test Modified	for Fungi (Study ID NC	G6341)
ATL SOP Number:	Testing Facility Operation 019.3	Performed by:	E. Cuellar
Sample Information			
Sample(s) Received:	07AUG2015	Number of samples:	1
Test Substance ID:	DioxiGuard 60FV for Fungus and Virus		
Parameters			
Microorganism(s):	T. mentagrophytes ATCC 9533 (spores)	
Growth Medium:	Glucose Agar	Spray Application:	4 sprays, 6 - 8 Inches at a 45° angle
"Soil" Type and Conc:	5% Fetal Bovine Serum (FBS)	Neutralizer:	20mL Mod. Letheen Broth
Carriers Tested:	10		+ 0.1% Sodium Thiosulfate
Type of Carrier:	Sterile 18x36x1mm glass slides	Incubation Time:	10 days
Contact Time:	1, 2 Minutes	Incubation Temp.:	30.0 ± 2°C
Controls			
Growth Control:	Passed	Neutralization:	Passed
Broth Sterility:	Passed	Agar Sterility:	Passed
Soil Sterility:	Passed	Carrier Sterility	Passed
Notes: The USI	EPA requires products making fung	icidal claims to der	monstrate disinfectant efficacy
Against Trychophytol	n mentagrophytes, also known as "	T. ment". <i>Trichoph</i>	yton species are associated with
public health related	infections including ring worm and	l Athlete's Foot. Ap	plied to tests as a spore, this fungi
poses a formidable o	challenge for disinfectant products s	such that disinfecta	nt products have an EPA stated
maximum allowable	contact time of 10 minutes to dem	onstrate total kill. T	he product tested in this study
demonstrated total k	ill of the test microorganism at con	tact times of both 1	and 2 minutes.
Test(s) Completed:	14 SEP 2015	Report Sent:	15 SEP 2015

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T. mentagrophytes ATCC 9533

Germicidal Spray Test Results

Test Microorganism	Average CFU/Carrier		Geometric Mean CFU/Carrier	Log Density	Average Log Density
T. mentagrophytes	Pre-Test Carriers	1.62E+04	1 505 04	4.21	4.20
ATCC 9533	Post Test Carriers	1.53E+04	1.58E+04	4.19	

Test	Soil Load	Contact	Test	Carriers	Carriers
Microorganism		Time	Substance	Positive	Negative
T. mentagrophytes ATCC 9533	5% Fetal Bovine Serum	1 Minute	DioxiGuard 60FV	0	10

Test	Soil Load	Contact	Test	Carriers	Carriers
Microorganism		Time	Substance	Positive	Negative
T. mentagrophytes ATCC 9533	5% Fetal Bovine Serum	2 Minutes	DioxiGuard 60FV	0	10

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Neutralization Validation

Test Microorganism	Neutralization Validation Counts	Positive/ Negative	
T. mentagrohpytes	54	Positive	
ATCC 9533	63	rositive	

Summarized Test Procedure

- Carriers were inoculated with 0.010 ml of the appropriate test culture.
- The inoculum was spread over ~ 1 sq. in. of each carrier and dried for 30 minutes at 36 \pm 1°C.
- Three carriers were harvested prior to testing and three carriers were harvested after testing, then enumerated to determine the "CFU/Carrier" count. One inoculated carrier was harvested and served as the viability control.
- One sterile carrier was treated similar to the test, eluted with 20 ml of Modified Letheen Broth supplemented with 0.1% Sodium Thiosulfate, and inoculated with approximately 100 CFU of test microorganism.
- 10 carriers were treated according to requested test parameters, allowed to sit for the sponsor approved contact time(s) then placed in tubes containing 20 ml Modified Letheen Broth supplemented with 0.1% Sodium Thiosulfate
- All tubes were incubated at 30 \pm 2°C for 10 days.
- After the incubation period, tubes were assessed for the presence (growth) of the target microorganism.

The results of this study apply to the tested substance(s) only. Extrapolation of findings to related materials is the responsibility of the sponsor.

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