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FINAL REPORT

AOAC Germicidal Spray Test Additional Organism
Acinetobacter baumannii

Test Substance
RD286

Lot Numbers
02212023LAB3
02212023LAB4

Test Organism
Acinetobacter baumannii, ATCC 19606

Test Guidelines
EPA (2018) Guidelines 810.2000 and 810.2200 (E)

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Study Completion Date
05/10/23

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Laboratory Project Identification Number
1080-147

Protocol Identification Number
1080.M.23.002

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RESULTS

Results are presented in Tables 1 – 7. The challenge microorganism was confirmed by Gram Stain and colony morphology using the Viability Control streaks, Purity Control and Carrier Count replicate purity streak to be consistent with *Acinetobacter baumannii.* The Sterility Control exhibited no growth. The Neutralizer Effectiveness Control exhibited growth.

Table 1
Test Results
Results Expressed as Number of Tubes Exhibiting Growth / Total Number of Tubes

Microorganism	Lot No.	Results
Acinetobacter baumannii	02212023LAB3	0/10
	02212023LAB4	0/10

Table 2
Neutralizer Effectiveness
Results Expressed as Growth (+) or No Growth (0) and Colony Forming Units (CFU)/Tube

Microorganism	Lot No.	Tube Result		Average CFU/Tube
		Replicate 1	Replicate 2	
Acinetobacter baumannii	02212023LAB3	+	+	16
	02212023LAB4	+	+	

Table 3
Viability Control
Results Expressed as Growth (+) or No Growth (0)

Microorganism	Replicate	Result
Acinetobacter baumannii	1	+
	2	+

Table 4
Sterility Control
Results Expressed as Growth (+) or No Growth (0)

Source	Replicate	Result
Neutralizer + Carrier	1	0
Neutralizer + Organic Soil	1	0

RESULTS (continued)

Table 5
Carrier Counts

Results Expressed as Plate Counts, Colony Forming Units (CFU)/mL, CFU/Carrier, Log Density, Mean Test Log_{10} Density and Geometric Mean Test CFU/Carrier

Phase	Rep.	Dilution	Plate Counts		CFU/mL	CFU/ Carrier	Log Density (Log_{10} CFU/Carrier)	Mean Test Log_{10} Density	Geometric Mean Test CFU/Carrier
Pre	1	10^{-2}	68	80	7.34×10^3	1.47×10^5	5.17	5.1	1.4×10^5
		10^{-3}	8	6					
		10^{-4}	1	0					
	2	10^{-2}	56	84	6.76×10^3	1.35×10^5	5.13		
		10^{-3}	3	7					
		10^{-4}	0	0					
	3	10^{-2}	72	60	6.58×10^3	1.32×10^5	5.12		
		10^{-3}	9	5					
		10^{-4}	0	0					
Post	1	10^{-2}	78	64	7.16×10^3	1.43×10^5	5.16		
		10^{-3}	10	6					
		10^{-4}	0	1					
	2	10^{-2}	74	88	8.20×10^3	1.64×10^5	5.21		
		10^{-3}	7	11					
		10^{-4}	1	1					
	3	10^{-2}	52	58	5.27×10^3	1.05×10^5	5.02		
		10^{-3}	4	3					
		10^{-4}	0	0					

RESULTS (continued)

Table 6
Purity Control

Organism	Source	Purity (✓ if pure)	Microscopic Morphology	Colony Morphology
				NA
Acinetobacter baumannii	Carrier Counts Control	✓	Negative rod	Shiny, raised, circular
	Purity Control	✓	Negative rod	Shiny, raised, circular

Table 7
Microorganism Confirmation Control

Microorganism	Source	Replicate	Microscopic Morphology	Colony Morphology
				Nutrient Agar
Acinetobacter baumannii	Viability Control	1, 2	Negative rod	Shiny, raised, circular
	02212023LAB3	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	No growth present	No growth present
	02212023LAB4	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	No growth present	No growth present

PRODUCT EVALUATION CRITERIA

According to the US Environmental Protection Agency, the test substance passes the test if no visible growth was observed in any of the 10 subculture tubes for each lot. All controls must meet the test acceptance criteria.

CONCLUSIONS

When tested as described, RD286, Lot Nos. 02212023LAB3 and 02212023LAB4 passed the AOAC Germicidal Spray Test when *Acinetobacter baumannii*, containing 5.0% HIFBS, was exposed to the test substance for 0 minutes 15 seconds at 21°C and 43.1-43.2% RH.

All the controls met the criteria established for a valid test. These conclusions are based on observed data.