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Testing of "Rest Easy" Product Against Bed Bugs

Testing: Direct Kill and Repellency

Performed by

Confidential

Introduction:

This testing was performed to determine how successful Rest Easy bed bug killer and repellent is in the treatment of bed bugs. Rest Easy provides a natural alternative to pesticides that would normally be used to kill bed bugs.

Test Methods:

The two part testing protocol for Rest Easy spray included a Direct Kill and a Repellency test. Eighty adult bed bugs were used for the testing. Each test was performed in triplicate.

The direct kill test consisted of four sets of ten. One set was used as the control. It consisted of ten adult bed bugs. The other three sets of ten bed bugs were sprayed with Rest Easy. The test was performed over a 4-hour period, with a count of dead bugs taken at 30 minutes, one hour, and four hours. Direct kill was evaluated by counting the number of bugs surviving a direct spray with Rest Easy.

The Repellency test also consisted of four sets of 10. The first set of ten was placed in a container with an activated hand warmer. The other three sets of ten were placed in containers with hand warmers wrapped in paper towels that were treated with Rest Easy bed bug spray. Repellency was evaluated by counting the number of bugs on treated heat packs versus non-treated heat packs.

Results and Interpretation:

1. **Direct kill (see table below).** When sprayed directly, Rest Easy killed 100% of live bed bugs within the first 30 minutes.

Test 1: Direct Kill				
	Control	**Treatment 1**	**Treatment 2**	**Treatment 3**
30 min	10	0	0	0
1 hour	10	n/a	n/a	n/a
4 hours	10	n/a	n/a	n/a

**Table shows number of bugs alive at each time interval.

2. **Repellency (see table below).** Rest Easy performed well as a repellant to bed bugs. The bugs showed a definite attraction to the activated hand warmer. However, when the hand warmer was wrapped in the treated paper towel, very few bed bugs approached it.

Test 2: Repellency				
	Heat Only	**Heat + soaked towel 1**	**Heat + soaked towel 2**	**Heat + soaked towel 3**
2 minutes	9	2	2	0
4 minutes	9	2	2	0
5 minutes	9	2	2	0
10 minutes	8	1	1	0
30 minutes	8	0	1	1

** Table shows number of bugs attracted at each time interval.

Based on the data obtained, Rest Easy is 100% effective when applied directly to bed bugs. Within the first 30 minutes of being sprayed, all bed bugs were dead. Rest Easy is a successful repellant as well. Ninety percent of the bed bugs were attracted to heat. However, only 10-20% were attracted to the heat source that was wrapped in a paper towel treated with Rest Easy.

Conclusion:

Rest Easy is effective in both killing and repelling bed bugs. The direct spray method is successful within the first few minutes. Repellency was effective during the entire 30-minute monitoring period.

APPENDIX A

Control for Direct Kill test

Photo shows untreated live bed bugs that served as the control for Direct Kill study.

These bed bugs remained alive for the entire 4-hour Direct Kill test.

APPENDIX B

Bed bugs and untreated heat source (Repellency test)

Photo shows bed bugs placed in a container with heat source only.
This shows the attraction bed bugs have to heat.

Bed bugs and treated heat source (Repellency test)

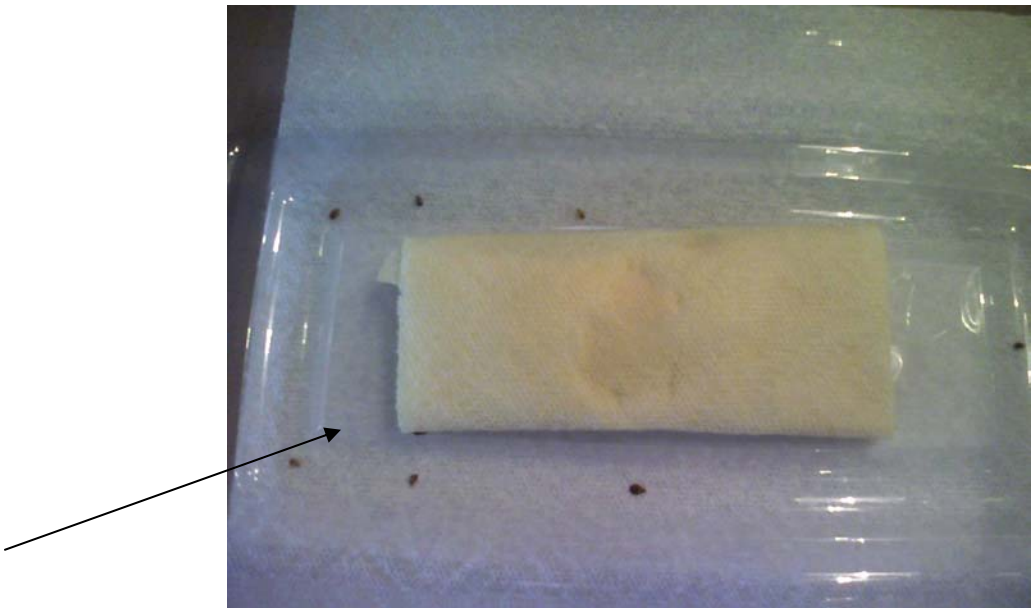

Photo shows bed bugs placed in a container with a heat source wrapped in a towel that has been treated with "Rest Easy." As you can see, "Rest Easy" repels all but one of the bedbugs. The arrow points to the area where the only bed bug attempted to go near the heat source surrounded by "Rest Easy."

Example of Treated Bed Bugs for Direct Kill Test

Photo shows dead bed bugs after a direct spray with "Rest Easy."
These bed bugs were killed within the first 30 minutes of the Direct Kill test.