

Study 6a

Laboratory Summary

This study was to evaluate the ability of Nuvan[®] Prostrips[®] to control bed bugs harboring in selected difficult to treat household items.

The items tested included: suitcase, shoes, framed picture, books, clock radio, and a computer keyboard. Bed bugs were collected from an apartment in Cincinnati and the bed bugs were resistant to pyrethroids. Test units consisted of 0.5 diameter PVC pipes cut to 3/8th inches long, covered with fabric at both ends.

The items, containing test units of bed bugs, were all placed into test arenas and one, 16 g Nuvan Prostrip was hung from the ceiling of each test arena. The arenas contained vapors from the Prostrip for 14 days but 1/3rd of the bed bug test units were removed at day 3, 7, and 14 to assess vapor time on bed bug efficacy.

Suitcases contained dead bed bugs after 7 days but 14 days was required to kill the eggs. Pictures and clock radios required 14 days to kill all forms. Shoes, books, and keyboards still had some surviving forms after 14 days.

It was difficult to achieve 100% control of all forms in all infested test items. Increasing the test temperature would improve mortality.