

Study 4a

Laboratory Summary

A laboratory study was conducted where bed bugs, (Irvington strain) that was moderately resistant to deltamethrin was used to evaluate Cynoff® Insecticide dust used to control bed bugs.

In a brief exposure test, bed bugs were allowed to cross a 2.54 cm band of dust that was applied to a cardboard panel and the resulting mortality read for 21 days.

In a forced exposure test, the bed bugs were continuously exposed to the test dust.

In a choice exposure test, the bed bugs could reside on the treated or untreated side of the panel.

The brief exposure resulted in 18% mortality 1 and 10 days after exposure to Cynoff. Cynoff exposure also resulted in 80% and 100% mortality of bed bugs in the forced exposure test at 1 and 5 days and 40% and 80% the choice exposure test for 1 and 10 days after exposure.