

Study 31a

Laboratory Summary

Two resistant (CIN-1 and WPR-1) and two susceptible (LA-1 and Fort Dix) strains of the common bed bug were used to evaluate the efficacy of Phantom® Pressurized Insecticide in the laboratory.

Bed bugs were then either directly sprayed with insecticide or placed upon filter paper treated with the insecticide to determine relative LT50 in days. The application of the aerosol product killed bed bugs with a LT50 of 0.9 to 2.9 days which was twice as fast as the water-based Phantom formulation.

A repellency test was performed using the aerosol product applied to one of two paper tents housed in a beaker containing the resistant bed bug strains. After 16 hours, Cin-1 bed bugs exhibited no preference for treated vs untreated tents (thus no repellency). The WOR-1 bed bugs preferred to rest on the treated tents.