

## Study 1a

### Laboratory Summary

A laboratory study was conducted using adult bed bugs from 3 different strains at the University of KY. Strain LA-1 was susceptible while CIN-1 was resistant and NY-1 was highly resistant to pyrethroids. Bed bugs were sprayed directly or confined to dry residues on surfaces for 7 days.

For the CIN-1 strain, direct sprays of Transport<sup>®</sup> GHP Insecticide resulted in 50% mortality 0.5 hours after application and 100% mortality at day 4. Dry residues produced 69% mortality at day 4 and 100% mortality at day 7. For the NY-1 strain, direct sprays resulted in 50% after 0.5 hours and 98% after 4 hours. Dry residues produced 87% mortality after 7 days.

Transport GHP was very effective in killing resistant bed bugs. Note that this formulation is a wettable powder formulation thus should have some of the performance characteristics of a dust.