

## Study 2b

### 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® Mikron Insecticide resulted in 50% mortality 0.5 hours after application and 100% mortality at day 4. Dry residues produced 75% mortality at day 1 and 84% mortality at day 7. For the NY-1 strain, direct sprays resulted in 100% after 4 hours. Dry residues produced 15% mortality after 7 days.

Transport Mikron was very effective in killing resistant bed bugs. Note that this formulation is a liquid formulation thus will not have some of the performance characteristics of a dust.