

## Study 12a

### Laboratory Summary

The *ActiveGuard*<sup>®</sup> Mattress Liner, is an Active Liner impregnated with 1.64% permethrin on a polyester fabric, and is labeled to kill bed bugs for up to 2 years. The Active Liner is typically installed inverted on the mattress and/or box spring once the bed bugs are largely cleared from the structure. Any missed bed bugs or nymphs from newly hatched eggs are killed thus preventing the start of new infestations.

The impregnated fabric was evaluated in the laboratory against one susceptible and two field strains of bed bugs. The field strains, NJ2 and NJ3, were collected from apartments in NJ where bed bug control had been difficult. Bed bug adults were confined to the treated fabric for 72 hours and mortality recorded daily. One hundred percent mortality was reported for all three test strains at 72 hours but most mortality occurred within 24 hours (Table 2).