

Insecticidal and Lectin Activities in *Bacillus thuringiensis* Fecal Isolates

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Insecticidal activity was associated with 67% of the *B. thuringiensis* fecal populations: 188 isolates exhibited larvicidal activities on both *Bombyx mori* (Lepidoptera: Bombycidae) and *Aedes aegypti* (Diptera: Culicidae), two isolates were specific for *B. mori*, and three isolates were toxic to *A. aegypti* only. Of the isolates with dual toxicity, 98% belonged to the serovar *kurstaki* (H3abc), producing bipyramidal parasporal inclusions. All of the serovar *aizawai* (H7) isolates killed both insects.

Parasporal inclusion proteins extracted from 27 *B. thuringiensis* fecal isolates were screened for hemagglutination (HA) activities against erythrocytes of the four mammalian and an avian species. The HA activities were commonly associated with not only insecticidal fecal isolates but also non-insecticidal ones.