

Field Evaluations of Insect Growth Regulator, Pyriproxyfen (Sumilarv[®]) Against *Aedes* *togoi* Larvae in Korea

Dong-Kyu Lee

Department of Biological Sciences, Kosin University

The granular formulation of 0.5% pyriproxyfen (Sumilarv[®]) was tested on evaluation of activity of emergence inhibition against *Aedes togoi* at a fresh water container and rock pools near coastal area in Pusan, Korea.

In fresh water container at field site, the treatment of pyriproxyfen at the dosage rate of 0.1 ppm produced 100.0% pupal emergence inhibition rates between 6 days and 25 days after treatment. The high residual activity of pyriproxyfen granules was continued until the end of this test (76 days) as 90.6% of inhibition rate. In brackish water of rock pool assessment, complete adult emergence inhibition in pupal isolation was produced during 5-40 days at 0.05 ppm, 5-9 days at 0.1 ppm and 5-30 days at 0.5 ppm after treatment. Most inhibition rates were over 80% throughout the test period at all test dosages of pyriproxyfen except 61.0% and 67.5% of inhibition rates at 0.01 ppm at 52 days and 62 days after treatment. It is suggested that the dose for successive control of *Ae. togoi* for long term might be 0.05-0.1 ppm of 0.5% Sumilarv[®] granules.