

Sukkarat Jindapon 2011: Insecticidal Efficacy of Betle Pepper (*Piper betle* Linn.) Leaf Against the Common cutworm (*Spodoptera litura* Fab.) Larvae House fly (*Musca domestica* Linn.) Larvae and Adult. Master of Science (Entomology), Major Field: Entomology, Department of Entomology. Thesis Advisor: Associate Professor Siripan Tantakom, Dr.Agr. 69 pages.

Comparative studies of the efficacy of betle pepper leaf (*Piper betle* Linn.) with 4 method were extracted by steam distillation, alcohol 95%, water and rice whisky 45%. The LD₅₀ of betle pepper leaf oil against common cutworm larvae (*Spodoptera litura* Fab.) by contact method at 24 hours were 3.91, 2.67, 5.55 and 4.24 % (v/v) respectively. The LD₅₀ for the house fly larvae (*Musca domestica* Linn.) by contact method at 24 hours were 4.54, 2.89, 5.96 and 4.39 % (v/v) respectively and adult house fly for the insecticidal test, by contact method the LD₅₀ at 24 hours were 4.26, 2.65, 5.15 and 4.26 % (v/v) respectively. All the betle leaf extraction had no repellency against all tested insects.

Student's signature

Thesis Advisor's signature