ชื่อเรื่อง	The Extracts of Vetiver Grass (Vetiveria Zizanioides) for Acaricidal Effect on Cattle Tick (Boophilus Microplus)
ชื่อผู้วิจัย	Roongnapa Korpraditkul ¹ , Chainarong Ratanakreetakul ² , Suratwadee Jiuraijinda ¹ , Suwapong Swasdiphanich ² , and Rachane Tiraporn ²
ชื่อหน่วยงาน	¹ Environmental Science Laboratory, Central Laboratory and Greenhouse Complex, Kasetsart University THAILAND ² Department of Agronomy, Faculty of Agriculture, Kasetsart University,

ปีที่ดำเนินการ

ปีที่พิมพ์รายงาน

Abstract

Root and rhizome of vetiver grass from different provinces i.e. Srisaket, Uthaithani and Petchaboon were collected and extracted by two methods i.e., steam distillation and solvent extraction, separately. The extracts were tested for acaricidal effect on adult and larval stages of cattle tick *(Boophilus microplus).* The extracts by steam distillation of dried vetiver roots from Uthaithani killed ticks at both stages at the highest rates which showed the mortality of larvae and adults at 50.7 and 20.0%, respectively. It is found that the extract by solvent gave higher acaricidal efficiency than those by distillation. Although vetiver extracts showed slight disadvantages when compared with citronella oil, the extract by ethanol from dried root of vetiver from Petchaboon showed very good result to give the mortality rate of larvae at 99.4% and inhibited adults from laying eggs at 46.7%. It is concluded that the ethanol extract of vetiver roots has high potential for controlling cattly ticks.