The efficacy of actelic 50 EC insecticide against dengue haemorrhagic fever vector Aedes aegypti by thermal fogging application

ABSTRACT The invention of an alternative insecticide with the aim to control Aedes aegypti is important in order to substitute an insecticide which provide a resistance effect to the vector. A trial on Actelic 50 EC at dosages of respectively 50 ml/Ha, 75 ml/Ha, 100 ml/Ha, 150 ml/Ha dan 200 ml/Ha by applying the thermal fogging technique against the Dengue Haemorrhagic Fever vector Aedes aegypti has been carried out. The fogging was conducted in the morning at the residence of the people living in Salatiga in the year 2005. The bioassay showed that as many as 100% of mortality of mosquitoes in the house was obtained by using Actelic 50 EC at dosages of 100 ml/Ha, 150 ml/Ha and 200 ml/Ha applying the thermal fogging (ULV) technique whereas outside of the house it was also effective at dosages of 150 ml/Ha and 200 ml/Ha. Indoor and outdoor fogging gave a different effect to kill Aedes aegypti mosquitoes.