Abstract

Melon fly (*Bactrocera cucurbitae* Coq.) is a serious pest of Cucurbitaceous crops caused fruit rot and discoloration on fruit skin. Melon fly attractant model will be the alternative control measure instead of using chemical insecticides. The development of melon fly attractant model are carried out and found that 99% Cue-lure: Methyl eugenol (9: 1) + 1% Hexanal: cis-6-Nonen-1-ol (6: 4) (0.12 grams/traps) can be used as a model product for melon fly attractant comparing to the commercial lure derived from Methyl eugenol : Cue-lure (85:15). This model product with paraffin gel as evaporation retardant was a convenient commercial product and able to attract melon fly for 28 days. Storing melon fly attractant model in transparent glass bottle and brown glass bottle at -4 °C and 4 °C for three months that effective for attracting melon fly same as used fresh mixed of melon fly attractant model and storage in dark and cool place cause a minimal change of chemicals concentration, better than store in plastic bottles.Suitability of the distance for using melon fly attractant model is 5 meters. In addition, the production cost of melon fly attractant is 5.02 BHT/trap for “separate mixer” and 5.78 BHT/trap for “ready-to-use”