## Trapping Efficiency of Highly Effective Slow Released Formulations of Biodegradable Waxes with Methyl Eugenol Against Bactrocera zonata

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**Abstract :** Experiment was carried out to evaluate the performance of highly effective Slow-Released Formulations (SRF) of Methyl eugenol with Lanolin wax, Candellila wax, Bee-wax, Carnauba wax and paraffin wax in the orchard of University of Agriculture Faisalabad, Pakistan against fruit flies. The waxes were mixed with methyl eugenol in 1:9 ratio. The results revealed that SRF of Candellila, Paraffin, Bees and Carnauba wax attracted 13.77, 11, 8.15 and 7.23 flies/day/trap which was 2.6, 2, 1.5 and 1.4 times higher than standard respectively and exhibited 41.42%, 32.05%, 20.98% and 12.87% attractive index respectively, proved moderately attractive slow-released formulation to B. zonata and was catagorized as Class-II slow-released formulation (AI = 11-50%). However, SRF of Lanolin wax trapped 1.81 flies/day/trap which was 3 times less than standard and exhibited -61.86% attractive index proved little or non attractive slow-released formulation and was categorized as Class-I slow-released formulation for B. zonata (AI < 11%).

Keywords : biodegradable waxes, slow-released formulation, Bactrocera zonata, methyl euginol

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