

Ovipositional Deterrent on Mature Stage of Sweet Pepper, *Capsicum annuum*, against *Liriomyza trifolii* (Burgess)

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Liriomyza trifolii (Burgess), the American serpentine leafminer fly, is a well-known serious pest in the world. This insect species attacks plants of more than 21 families including Solanaceae plants. A sweet pepper, *Capsicum annuum* (Solanaceae), on mature stage, however, shows resistance to this leafminer fly. This resistance is based on the ovipositional deterrent in the sweet pepper leaf against the fly species. Based on the bioassay guided fractionation, phytol [(2*E*)-3,7,11,15-tetramethyl-2-hexadecen-1-ol] was isolated and identified as an ovipositional deterrent against this insect species. The yield of this compound was 815 $\mu\text{g/g}$ fresh leaf of *C. annuum*. This compound completely deterred the females from laying their eggs on host plant leaves treated at 35.2 $\mu\text{g/cm}^2$.

Key words: *Liriomyza trifolii*, Ovipositional Deterrent, *Capsicum annuum*, Phytol