

E2-10: Aphid repellent components in *Croton lacciferus*

H M J Herath¹, L K G Wickremesinghe¹, I V S Fernando²
(¹Dept of Chemistry, ²Dept of Zoology, Univ of Kelaniya)

Repellency of essential oil of *Croton lacciferus* (Keppettiya) against *Aphis gossypii* is known. To identify the active compounds, the essential oil of *Croton lacciferus* was fractionated using a solvent extraction system (ethanolic water/hexane).

The hexane fractions were analysed using gas chromatography and the ethanolic water fractions were bioassayed systemically under laboratory conditions for *Aphis gossypii* against a control and the total essential oil, using *Solanum melongena* as the host plant.

The 1:5 ethanol:water fraction reduced aphid settling 70% on the treated leaves. The bioactive components in this fraction were analysed by GC-MS.

Financial assistance by IFS, Sweeden research grant F/986-1 is acknowledged.