

E2 - 02

**Repellant activity of *Alpinia calcarata* (Heen araththa) volatiles for *Periplanata americana* (American cockroaches)**

A steam distillate from the freshly cut rhizome of *Alpinia calcarata* was analysed by GAS chromatography, Gas chromatography coupled with electroantennographic detection (GC-EAAD) and GC-MS to detect repellant components for the cockroaches (*Periplanata Americana*). Three peaks were shown to possess electrophysiological (EAG) activity. They were identified as  $\beta$ -eineole (major compound), camphor and 4-caranol. The crude

extract was more effective than any of the compounds for adults and nymphs cockroaches.