

Fumigant Activity of Essential Oils against German Cockroach, *Blattella germanica*

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These studies were carried out to investigate the contact toxicity and fumigant toxicity of 20 essential oils against German cockroach, *Blattella germanica*. In all the essential oils, contact toxicity test using filter paper diffusion showed little or no insecticidal activity against *B. germanica*. Among the 20 essential oil tested, coriander oil at $20\mu\text{l} / 954\text{ml}$ (air) dose showed 100% of fumigant toxicity. Through the constituent analysis using gas chromatography (GC) and gas chromatograph mass spectrometry (GC/MS), the compound with 100% of fumigant toxicity were γ -terpinene and geranyl acetate at $10\mu\text{l} / 954\text{ml}$ (air) dose.