

Search for neem materials having repellent effect against green peach aphid (*Myzus persicae* Sulzer)

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Abstract

Green peach aphid is a major pest of various plant such as *Solanaceae*, *Fabaceae* and *Brassicaceae* plants. It is very difficult to control the aphid when they multiply in greenhouse and field. In this study, we focus on neem having pest-control effect against various pests, and set out to develop new biological pesticide against green peach aphid. We searched for neem materials having repellent effect against green peach aphid and determined the effective concentration of neem. Moreover, volatile extract of neem materials was subjected to repellent test against green peach aphid. Neem cake had strong repellent effect against green peach aphid. Neem raw leaves had slight repellent effect while neem oil had no repellent effect. Volatile extract of 10 g of neem cake showed repellent effect comparable to that of neem cake. These results suggest that volatile components in neem cake have repellent effect on green peach aphid.