

Title Natural essential oil from lemon grass and clove to control postharvest anthracnose in a mango orchard

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Abstract

This research aimed to study the efficiency of essential oil from lemon grass (*Cymbopogon citratus* Stapf.) and clove (*Eugenia caryophyllus*) on controlling postharvest anthracnose of mango fruit, 'Nam Dok Mai', caused by *Colletotrichum gloeosporioides*. The experiment was conducted at Rajamangala University of Technology, Suvarnabhumi, Ayudhya Huntra using completely randomized design with three replicates. There were eight treatments: lemon grass oil and clove oil at 4,000, 5,000 and 6,000 ppm, compared with carbendazim at 1,000 ppm and non-chemical control spraying. The best control was achieved by spraying with lemon grass oil at 5,000 ppm. The result showed an alternative way to control post-harvest anthracnose of mango fruit as a substitute for chemical treatments.