Secondary metabolites of *Chaetomium globosum* used as antifungal against post harvest pathogens

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**Summary**

*Chaetomium globosum* strain F0140, which was isolated from *Butea monosperma*, has been identified as a potential antagonist of post–harvest pathogen. Production of antifungal compound by *Chaetomium globosum* and its role in suppression of test fungus in vitro has been evaluated. Bi-cultural test in laboratory showed that *C. globosum* gave the highest inhibition activity against test fungal pathogen. Inhibition of radial growth and clear zone of inhibition were 95.24 % and 0.35 cm observed, respectively. Crude extract also showed 95% inhibition at the 100 % concentration. The 10 h exposure of extract showed 100% inhibition of spore germination. Culture study showed the best medium for *C. globosum* was MYEA at 20°C in pH-6. This result showed high antifungal metabolite produce by isolate which gave maximum bioefficacy under laboratory conditions against post -harvested pathogen. Significance in antagonism between isolates and test pathogen was observed.


**Key words**

*Chaetomium globosum*,
Antagonism,
Antifungal compound,
Pathogen inhibition, Plant pathogen

**Received:**
June, 2011

**Revised:**
August, 2011

**Accepted:**
September, 2011