



In vitro efficacy fungicides against causal agents of twister disease of onion

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ABSTRACT

Twister disease of onion has become epidemic in coastal tract and other onion growing districts of Karnataka which caused heavy loss and its causal agents are *C. gloeosporioides* and *F. oxysporum*. Efforts were made to screen fungicides to know their efficacy of different fungicides at different concentrations under *In vitro* by poisoned food technique. Among the four non-systemic fungicides evaluated against *C. gloeosporioides* maximum inhibition was observed in chlorothalonil (42.60%). Among the seven systemic fungicides against *F. oxysporum* evaluated, hundred per cent inhibition of mycelial growth of *C. gloeosporioides* at all tested concentrations was observed in propiconazole, hexaconazole, tebuconazole and tricyclazole. Among the seven combi product fungicides evaluated carbendazim 12 per cent + iprodione 63 per cent (Quintal) inhibited maximum mycelial growth (95.43%). *In vitro* evaluation of fungicides revealed that among the four non-systemic fungicides evaluated, maximum inhibition of mycelial growth of *F. oxysporum* was observed in copper oxychloride (64.84%). Among six systemic fungicides evaluated, maximum inhibition of mycelial growth of *F. oxysporum* was observed in propiconazole (93.52%). Among the six combi-product fungicides evaluated, hundred per cent inhibition of mycelial growth was observed in Saaf, Sprint and Vitavax power at all tested concentrations.

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