

In vitro efficacy of different fungicides against *Alternaria macrospora* causing leaf blight of cotton

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ABSTRACT

A total of sixteen fungicides which included six systemic, five non systemic and five combi products which differed significantly with respect to fungicides concentrations and their interactions were evaluated for their efficacy against *Alternaria macrospora* by poisoned food technique. Among the six systemic fungicides evaluated against *A. macrospora*, hexaconazole and propiconazole recorded the cent per cent inhibition of mycelial growth at all the concentrations (0.05 %, 0.1 % and 0.15 %) and least inhibition of mycelial growth was recorded by carbendazim (26.01 %). Out of five non systemic fungicides evaluated, mancozeb recorded the maximum inhibition of 95.29 per cent followed by captan 92.68 per cent and copper oxy chloride recorded the minimum inhibition of 68.7 per cent. Among five combi fungicides evaluated *in vitro* (tebuconazole 50 % + trifloxystrobin 25 %) recorded the complete inhibition (100 %) at all concentrations (0.1 %, 0.2 % and 0.3 %) and least inhibition of mycelial growth 86.01 per cent was recorded by (captan 70 % + hexaconazole 5 %).

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