



Efficacy of fungicides and phytoextracts against *Alternaria* spp. causing leaf spot on cotton *in vitro*

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Abstract : Of the eight fungicides tested *in vitro*, mancozeb and hexaconazole were found most effective to inhibit the mycelial growth of *Alternaria* spp. at 0.2% concentration. Phytoextract, azadiractien was superior over karanz oil and mustard oil to inhibit the mycelial growth. In potted plants, minimum disease severity were obtained in mancozeb and hexaconazole followed by copper oxychloride and tilt. All treatments as foliar sprays were able to reduce disease severity over untreated control at 0.2% followed by 0.1% concentration. Mancozeb and hexaconazole were found effective in management of *Alternaria* leaf spot of cotton.

Key Words : Fungicides, Plant extract, *Alternaria alternata*, *Alternaria macrospora*, *Alternaria gossypina*, Leaf spot, Bt cotton, Non Bt cotton

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