In vitro evaluation of different fungicides, plant extracts and bio-agents against Alternaria alternata (Fr.) Keissler causing leaf blight of cowpea

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Summary
The pathogenic fungus was isolated on PDA medium. The colony of Alternaria alternata was circular, grayish black with whitish growth on the upper surface on PDA with profuse growth and sporulation. Among different fungicides tested in vitro, Mancozeb (0.2 per cent) and Propiconazole (0.05 per cent) completely inhibited the growth of the test fungus. In vitro screening of the plant extracts revealed that the bulb extract of garlic was most effective in inhibiting the growth of the test fungus followed by sadaphuli and glyricidia. The antagonistic effect of the fungal bioagents against Alternaria alternata revealed that Trichoderma harzianum and Trichoderma viride significantly inhibited the mycelial growth of the test fungus.

Key words:
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