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In vitro evaluation of fungicides and organic extracts against Macrophomina phaseolina (Tassi) Goid. isolated from pigeonpea [Cajanus cajan (L.) Millsp.]

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ABSTRACT

Ten fungicides at three different concentrations were screened *in vitro* by poisoned food technique for evaluating their efficacy against *M. phaseolina*, in which mancozeb (dithane M-45, 75% WP), carbendanzim (bavistin, 50% WP), carbendanzim + mancozeb (sixer, 75% WP) and metalexyl 18% + mancozeb 64% (ridomil, 75% WP) were proved to be highly toxic to the growth of the *M. phaseolina*. Eight different organic extracts were tested against *M. phaseolina* by poisoned food technique with different concentration *in vitro*. All the extracts were inhibitory to *M. phaseolina* significantly lower mycelium growth was recorded in *Neem* cake followed by coconut. Next best were FYM, mustard cake, sesamum cake and vermicompost. While lowest inhibition of mycelial growth of *M. phaseolina* was observed in groundnut cake and castor cake.

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