

## ASSESSMENT OF VARIABILITY AMONG ISOLATES OF *PHOMOPSIS VEXANS* IN RESPECT TO PRODUCTION OF HYDROLYTIC ENZYMES AND TOXIN

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### ABSTRACT

This study was conducted to investigate variability among five isolates of *Phomopsis vexans* in respect to the production of enzymes and toxins during pathogenesis. Results showed that five isolates *Phomopsis vexans* was varied among themselves to produce macerating enzyme (ME), pectin methylesterase [pectinesterase] (PME) and cellulase enzymes in the Richards' medium. The virulent isolates produce pectic and cellulose enzyme whereas some isolates are not capable of producing such enzyme. Such variability also observed in phytotoxin production by these isolates. The phytotoxin produces by those isolates inhibited the brinjal seedling. The symptoms produced on brinjal seedlings following dipping of seedlings in different concentration of toxin(s) preparation were shows variation from isolates to isolates.

**KEYWORDS:** *Phomopsis vexans*, Isolates, Hydrolytic Enzymes and Toxin