

Title Microbially induced defense related proteins against postharvest anthracnose infection in mango
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Abstract

The talc based formulation of plant growth promoting rhizobacteria (PGPR) and yeast antagonistic strains with or without chitin amendment was evaluated against anthracnose in mango. A preharvest application of *Pseudomonas fluorescens* (FP7) with chitin formulation at monthly spray intervals through aerial spray significantly reduced the pre and postharvest anthracnose incidence. The strain FP7 containing chitin treated mango tree revealed the maximum panicle initiation and yield attributes. In field trials, *P. fluorescens* (FP7)+chitin treatment reduced the anthracnose incidence of 60% over untreated control and its efficacy was superior to standard fungicide carbendazim treatment. The reduced latent symptom expression was noticed in stored conditions.