

Supplementary Fig. 1. Antifungal activity assessment using the clear zone method. Streptomyces bacillaris S8 and its mutants were evaluated for their inhibitory effects against Colletotrichum truncatum (A) and Fusarium sp. (B) via disk diffusion assay. The bacteria, at a concentration of  $10^6$  cfu/ml, were pre-inoculated with  $20 \mu l$  on potato dextrose KNO<sub>3</sub> (PDK) media and incubated for 5 days at  $28^{\circ}$ C. Subsequently, after a 10-day incubation period, a pathogenic organism (0.4 cm diameter) was centrally inoculated onto the plate and further incubated at  $28^{\circ}$ C for 10 days. Each experimental condition was performed in quintuplicate (n = 5).