Isolation and Identification of Protease Fungi from Bean Crop Soil in Myaungtagar Village

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Abstract

The present study was undertaken to isolate and screen the proteolytic fungi from the samples of bean crop soil collected from Myaungtagar village. A total of 18 strains were screened on Potato Dextrose Agar (Added 1% Casein) medium from bean crop soil. Those isolated fungi were cultured on Skim Milk Agar (SMA) medium as preliminary protease enzyme production medium for detecting the clear zone around the fungal colony. Among 18 isolated strains, 5 strains showed positive results of clear zone as protease activity but prominent strains M5, M10 and M16 were selected based on the most outstanding clear zone from each bean crop soil. These selected fungal strains were identified on the basic of their colony morphology and spore formation according to the method of Barnett (1960) and Dube (1933).

Key word: Proteolytic fungi from bean crop soil

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