A Study on the Antimicrobial Activities of Endophytic Fungi from Limnophila Aromaticoides (Lamarck) Merrill

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Abstract

Limnophila aromaticoides (Lamarck) Merrill. (Ye-theyet-kin) was collected from Pathein Township, Ayeyarwady Region, belonging to the family Scrophulariaceae. The collected plant was identified by the Botany Department, Pathein University. The isolation of microorganisms was carried out by the surface sterilization method. The nine endophytic fungi were isolated from *Limnophila aromaticoides* (Lamarck) Merrill. Among them, the fungus MY-08 (27.12 mm) isolated from the midrib was selected for further investigations based on the results of the antimicrobial activity especially against *Candida albicans* NITE 09542. The amylase enzymes activities of isolated endophytic fungi were tested by culturing in a soluble starch liquid medium. In the study of liquid medium, MY-06 and MY-09 can hydrolyze the starch.

Keywords: isolation, antimicrobial activities, amylase enzymes activity

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