UNIVERSITI TEKNOLOGI MARA

ISOLATION OF BIOACTIVE FUNGAL METABOLITES FROM ENDOPHYTIC FUNGI

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ABSTRACT

The study was done to investigate the secondary metabolites produced by endophytic fungi of 3PR3 that can be used for medicinal plant purpose. The study was done by growing the fungi on Potato Dextrose Agar Plate (PDA). Then the cultures were incubated for a two-week period. After that, extraction of the fungi metabolite was performed by using ethyl acetate as a solvent. Fungal extracts had been subjected to High performance liquid chromatography (HPLC) using a diode array detector (DAD) to see the chromatogram and compare between batches. Then proceed to Semi PREP HPLC and collected all peaks in vial. After that fractions had been biologically tested on antibacterial activity and cytotoxic activity. From the observation, antibacterial test by MTT assay show negative result on all plate means there is no antibacterial activity produced by the extract of fungi 3PR3 against bacteria *Pseudomonas Aeroginosa*.