

ABSTRACT

This study aims to obtain isolates of endophytic fungi on some types of local aromatic rice of Enrekang regency that has the ability to dissolve phosphate. Isolation of fungi carried out at the roots, stems and leaves of aromatic rice. Pure isolates of the fungus were grown on Pikovskaya liquid media and measured its absorbance to determine the ability of each endophytic fungal isolate in dissolving phosphate, hence the isolates were selected on rice seeds.

The results showed that there were 12 isolates of the fungus endophyte that can be isolated and purified from the roots, stems and leaves of aromatic rice plants. The twelve isolates of endophytic fungus showed ability to dissolve phosphate that varied between 8.92 - 10.86 mg.l-1. Endophytic fungus isolates that have the

highest ability to dissolve phosphate isolate was the endophytic fungus isolated from the stem of Pare Lambau.

Keywords: endophytic fungi, solvents phosphate, local aromatic rice