

## Abstract

### ANTIBACTERIAL ACTIVITY OFFRACTIONSOF BIDARA UPAS

(*Merremia mammosa* (Lour.) Hallier f.)'s AGAINST

*Mycobacterium tuberculosis* ATCC 27294

Bidara upas (*Merremia mammosa* (Lour.) Hallier f.) is known as traditional anti-Tuberculosis plant in Madura. This study was aimed to investigate antibacterial activity of fractions of Bidara upas inhibiting *Mycobacterium Tuberculosis* growth. These fractions were made by using vacuum liquid chromatography methods with a mixture of chloroform and methanol as the eluent. A former research showed these methanol fractions contained flavonoid components.

In antibacterial test, 9 fractions at 500 µg/ml concentration was chosen to be analyzed those antibacterial activity. The result showed only one fraction, known as fraction 4, showed antibacterial activity against both *Mycobacterium tuberculosis* H37Rv 27294 strains. The MIC of fraction 4 is 50 µg/ml.

Keyword : antibacterial, flavonoid, *Merremia mammosa*, tuberculosis

