Abstract

ANTIBACTERIAL ACTIVITY OF FRACTION OF 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