

ABSTRACT

SEPARATION OF FLAVONOID COMPOUND OF BIDARA UPAS TUBER (*Merremia mammosa*, (Lour.) Hallier f.) FROM METANOL EXTRACT WITH Rf VALUE 0.59 OF FRACTION 2 BY LIQUID CHROMATOGRAPHY

Bidara upas tuber used empirically as antituberculosis in Sumenep-Madura. Many research previously identified an organic compound within bidara upas tuber (*Merremia mammosa*, (Lour.) Hallier f.). However, the research for it's flavonoid having the character of polar on the plant's never been done. The research aim is to separation of flavonoid in methanol extract from bidara upas tuber. Flavonoid compound supposed to have numerous physiological activities.

Flavonoid separation from methanol extract of bidara upas tuber (*Merremia mammosa*, (Lour.) Hallier f.) with Rf value 0.59 of fraction 2 by liquid chromatography was done. The extraction was done by maceration methode and separation of isolated compound was conducted by chromatographic technique. Isolation result is yellow greeness crystal 5.6 mg. The peak at 296 nm of UV spectrum indicated that isolated compound have conjugated double bond which is connected to aromatic rings. The IR spectrum gave absorbtion peak on 3459 cm^{-1} (O-H), 1745 cm^{-1} (C=O), 1644 cm^{-1} (C=C sp²), 1374 cm^{-1} (Geminal dimetil), 1245 cm^{-1} (C-O eter), 1048 cm^{-1} (C-O alcohol) and 770 cm^{-1} (C-H). Based on spectroscopy UV and compared to literature can be conclude that isolated compound is 3,5,7,8,4'-pentahidroxy flavon-6-terprenilasi.

Keywords : bidara upas, flavonoids, 3,5,7,8,4'-pentahidroxy flavon-6-terprenilasi.