ABSTRAK

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Judul : Uji Aktivitas Ekstrak Etanol Daun Kembang Bulan (*Tithonia diversifolia* (Hemsl) A. Gray) Terhadap Bakteri *Escherichia coli dan Enterococcus faecalis*

Daun kembang bulan *(Tithonia diversifolia (Hemsl.)* A. Gray) merupakan tumbuhan yang banyak ditanam sebagai tanaman hias yang memiliki senyawa aktif seperti flavonoid, alkaloid, tanin dan saponin, sehingga kemungkinan memiliki aktivitas antibakteri. Tujuan penelitian dilakukan untuk mengetahui aktivitas antibakteri ekstrak etanol daun kembang bulan terhadap bakteri *Escherichia coli* dan *Enterococcus faecalis*. Bahan uji yang adalah daun kembang bulan dan metode ekstraksi digunakan secara maserasi dengan pelarut etanol 70%. Uji aktivitas antibakteri dilakukan dengan menggunakan metode difusi cakram pada konsentrasi 20%, 40%, 60%, 80% dan 100%, dengan kontrol positif amoxicillin dan kontrol negatif aquadest. Hasil penelitian menunjukkan bahwa ekstrak etanol daun kembang bulan memiliki aktivitas antibakteri terhadap *Enterococcus faecalis* pada konsentrasi 20%, 40%,60%,80% dan 100% dengan Diameter Daya Hambat (DDH) berturut-turut 8,20 mm, 10,78 mm, 13,28 mm, 14,14 mm, dan 10,05 mm, namun tidak aktif terhadap *Escherichia coli*

Kata kunci : Kembang bulan, *Tithonia diversifolia, Escherichia coli, Enterococcus faecalis,* antibakteri

ABSTRACT

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Title : Antibacterial activity of Ethanol extract from kembang bulan leaves (*Tithonia diversifolia (Hemsl.)* A. Gray) againts *Escherichia coli* and *Enterococcus faecalis*

Kembang bulan *(Tithonia diversifolia (Hemsl.)* A. Gray) is a plant widely grown as ornamental plant that has active compounds such as flavonoids, alkaloids, tannins and saponins so it may have antibacterial activity. The aim of this research was to determine the antibacterial activity of the ethanol extract of the leaves of kembang bulan against *Escherichia coli* and *Enterococcus faecalis*. The material was is the leaves of the kembang bulan and the extract was prepared by maseration method in ethanol 70%. The antibacterial activity test was performed using the disc diffusion method at extract concentrations of 20%, 40%, 60%, 80% and 100%, with amoxicillin as positive control and aquadest as negative control. The results showed that the ethanol extract of the leaves of kembang bulan had antibacterial activity against *Enterococcus faecalis* at concentrations of 20%, 40%, 60%, 80% and 100% with Diameter of Inhibition (DDH), respectively 8.20 mm, 10.78 mm, 13.28 mm, 14.14 mm, and 10.05 mm, but no activity against *Escherichia coli*

Keywords: Kembang bulan, *Tithonia diversifolia*, *Escherichia coli*, *Enterococcus faecalis*,antibacterial