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**PERBEDAAN PELARUT ETANOL 96% DAN ETIL ASETAT EKSTRAK  
BUNGA TELANG (*Clitoria ternatea* L) TERHADAP AKTIVITAS  
ANTIBAKTERI *Propionibacterium acnes***

(xv + 93 halaman + 9 gambar + 14 tabel + 12 lampiran )

**ABSTRAK**

**Latar belakang:** Bunga telang (*Clitoria ternatea* L) mengandung senyawa metabolit sekunder diantaranya flavonoid, tanin, fenol yang diduga memiliki aktivitas sebagai antibakteri. Penelitian bertujuan menguji pengaruh perbedaan pelarut berbagai konsentrasi etanol 96% dengan etil asetat ekstrak bunga telang (*Clitoria ternatea* L) terhadap bakteri *Propionibacterium acnes*.

**Metode:** Penelitian eksperimental dengan desain *post test control group design* menggunakan 5 kelompok perlakuan. Kontrol positif klindamisin 500 mg, kontrol negatif aqua pro injeksi, konsentrasi ekstrak 5%, konsentrasi 10%, dan konsentrasi 15%. Uji aktivitas antibakteri menggunakan metode difusi cakram dengan perbandingan pelarut pada ekstrak etanol 96% dan etil asetat.

**Hasil:** Ekstrak bunga telang (*Clitoria ternatea* L) dengan konsentrasi 5%, 10%, dan 15% pada pelarut etanol 96% dapat menghambat bakteri *Propionibacterium acnes* dengan diameter rata-rata sebesar  $8,57 \pm$  mm,  $12,24 \pm$  mm, dan  $13,55 \pm$  mm, sedangkan pada ekstrak bunga telang dengan pelarut etil asetat menyatakan tidak adanya daya hambat pada pertumbuhan bakteri *Propionibacterium acnes*.

**Kesimpulan :** Ekstrak etanol 96% bunga telang (*Clitoria ternatea* L) memiliki aktivitas antibakteri *Propionibacterium acnes* sedangkan ekstrak etil asetat bunga telang tidak memiliki aktivitas antibakteri *Propionibacterium acnes*.

**Kata kunci** : Antibakteri, *Clitoria ternatea* L, *Propionibacterium acnes*

**Kepustakaan** : 46 (2008 – 2019)

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**DIFFERENCES OF 96% ETHANOL SOLUTION AND ETHYL ACETATE EXTRACT FLOWERS (*Clitoria ternatea* L) ON ANTIBACTERIAL ACTIVITIES *Propionibacterium acnes***

(xv + 93 pages + 9 images + 14 tables + 12 attachments )

**ABSTRACT**

**Background:** Telang flower (*Clitoria ternatea* L) contains secondary metabolite compounds including flavonoids, tannins, phenols which are thought to have antibacterial activity. This study aimed to examine the effect of different extractors of various ethanol concentrations of 96% with ethyl acetate extract of telang flower (*Clitoria ternatea* L) on *Propionibacterium acnes*.

**Method:** experimental research with post test control group design using 5 treatment groups. Positive control of clindamycin 500 mg, negative control of aqua pro injection, extract concentration of 5%, concentration of 10%, and concentration of 15%. Antibacterial activity test using the disc diffusion method with a solvent ratio of 96% ethanol extract and ethyl acetate.

**Results:** Telang flower extract (*Clitoria ternatea* L) with a concentration of 5%, 10%, and 15% in 96% ethanol solvent can inhibit *Propionibacterium acnes* bacteria with an average diameter of  $8.57 \pm$  mm,  $12.24 \pm$  mm, and  $13.55 \pm$  mm, whereas in telang flower extract with ethyl acetate solvent stated no inhibitory growth in the growth of *Propionibacterium acnes*.

**Conclusion:** 96% ethanol extract of telang flower (*Clitoria ternatea* L) has antibacterial activity of *Propionibacterium acnes* while ethyl acetate extract of telang flower does not have antibacterial activity of *Propionibacterium acnes*.

**Keywords :** Antibacterial, *Clitoria ternatea* L, *Propionibacterium acnes*

**Literature :** 46 (2008 – 2019)

