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Program Studi Farmasi S1  
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**"UJI AKTIVITAS ATIBAKTERI EKSTRAK ETANOL 70% DAN EKSTRAK ETANOL 96% DARI BUAH STRAWBERRY (*Fragaria x ananassa*) TERHADAP BAKTERI *Propionibacterium acnes* "**  
(xv + 45 halaman + 9 gambar + 17 tabel + 10 lampiran)

## **INTISARI**

**Latar Belakang:** Buah strawberry (*Fragaria x ananassa*) mengandung senyawa aktif, flavonoid, tanin, dan saponin. Buah strawberry (*Fragaria x ananassa*) merupakan salah satu sumber penting fitokimia yang memiliki banyak manfaat bagi kesehatan manusia, salah satunya adalah sebagai anti mikroba. Penelitian ini bertujuan untuk, uji aktivitas antibakteri dari ekstrak etanol 70% dan 96% buah strawberry (*Fragaria x ananassa*) akan diuji terhadap *Propionibacterium acnes*.

**Metode:** Penelitian dimulai dengan maserasi menggunakan pelarut etanol 70% dan 96%. Sedangkan aktivitas antibakteri menggunakan metode difusi cakram menggunakan variasi konsentrasi 1%, 2%, dan 3% dengan menggunakan perbandingan antibiotik clindamycin.

**Hasil:** Ekstrak buah strawberry (*Fragaria x ananassa*) diperoleh hasil etanol 70% (10,25%) dan etanol 96% (11,08%). Etanol 70% konsentrasi 1% memiliki ketahanan 10,89 mm, konsentrasi 2% 14,63 mm dan 3% 16,60 mm. Etanol 96% konsentrasi 1% memiliki ketahanan 12,03 mm, konsentrasi 2% 16,67 mm dan 3% 19,17 mm. Hasil statistik etanol 70% dan 96% aktivitas antibakteri keduanya memiliki aktivitas antibakteri yang tidak jauh berbeda sebagaimana dibuktikan dari uji statistik T-Test dengan p-Value > 0,05.

**Kesimpulan:** ekstrak etanol 70% dan 96% buah strawberry (*Fragaria x ananassa*) dapat menghambat pertumbuhan *Propionibacterium acnes* dengan konsentrasi optimal 3%.

**Kata kunci:** *Fragaria x ananassa*, etanol 70% dan 96%, *Propionibacterium acnes*.

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**"ACTIVITY TEST OF ANTIBACTERIAL 70% ETHANOL EXTRACT AND 96% ETHANOL EXTRACT MADE FROM STRAWBERRY FRUIT (*Fragaria x ananassa*) AGAINST *Propionibacterium acnes* BACTERIA"**  
(xv+ 45 pages + 9 pictures + 17 tables + 10 attachments)

**ABSTRACT**

**Background:** Strawberry fruit (*Fragaria x ananassa*) contains active compounds, flavonoid, tannin and saponin. Strawberry fruit (*Fragaria x ananassa*) is an important source of phytochemicals that has many benefits for human health, one of which is as an anti-microbial. In this study, an antibacterial activity test of 70% and 96% ethanol extract made from strawberry fruit (*Fragaria x ananassa*) was tested against *Propionibacterium acnes*.

**Methods:** The study began with maceration using 70% and 96% ethanol solvents. While the antibacterial activity used the disk diffusion method using a concentration variations of 1%, 2%, and 3% by using the comparison of clindamycin antibiotic.

**Results:** Strawberry fruit extract (*Fragaria x ananassa*) obtained 70% ethanol (10.25%) and 96% ethanol (11.08%). 70% ethanol with 1% concentration had a resistance of 10.89 mm, 2% concentration of 14.63 mm and 3% of 16.60 mm. 96% ethanol with 1% concentration had a resistance of 12.03 mm, 2 concentration of 16.67 mm and 3% of 19.17 mm. The statistical results of 70% and 96% ethanol related to antibacterial activity both had antibacterial activity with was not much different as evidenced from the T-Test statistical test with p-Value > 0.05.

**Conclusion:** 70% and 96% ethanol extract made from strawberry fruit (*Fragaria x ananassa*) can inhibit the growth of *Propionibacterium acnes* with an optimal concentration of 3%.

**Keywords:** *Fragaria x ananassa*, 70% and 96% ethanol, *Propionibacterium acnes*.