

**UJI AKTIVITAS ANTIBAKTERI EKSTRAK ETANOL DAUN ROSELLA  
(*Hibiscus sabdariffa* L) TERHADAP BAKTERI *Staphylococcus aureus* DAN  
*Salmonella Typhi* DENGAN METODE SUMURAN**

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**INTISARI**

**Latar Belakang:** Daun rosella memiliki banyak senyawa yang dapat berfungsi sebagai antioksidan dan antibakteri seperti alkaloid, flavonoid, saponin dan tanin yang dapat menghambat pertumbuhan bakteri. Senyawa alkaloid dapat mengganggu komponen penyusun peptidoglikan sel bakteri. Senyawa flavonoid mampu menghambat sintesis asam nukleat. Saponin memiliki molekul *hidrofilik* dan *lipofilik* yang dapat menurunkan tegangan permukaan sel. Tanin dapat menyerang polipeptida dinding sel sehingga menyebabkan kerusakan sel.

**Tujuan Penelitian:** Mengetahui aktivitas antibakteri ekstrak etanol daun rosella serta konsentrasi optimum yang dapat menghambat pertumbuhan bakteri *Staphylococcus aureus* dan *Salmonella typhi*.

**Metode penelitian:** Ekstraksi daun rosella dilakukan dengan metode maserasi menggunakan pelarut etanol 70%. Metode pengujian aktivitas antibakteri dilakukan dengan metode sumuran dengan kelompok perlakuan ekstrak etanol daun rosella konsentrasi 20%, 40%, 60%, 80% dan 100%. Hasil data dianalisis dengan menggunakan metode statistik *One-Way ANOVA*.

**Hasil Penelitian:** Ekstrak etanol daun rosella konsentrasi 20%, 40%, 60%, 80% dan 100% memiliki aktivitas antibakteri terhadap *S. aureus* dan *S. typhi*. Ekstrak etanol daun rosella konsentrasi 20%, 40%, 60%, 80%, 100% terhadap *S. aureus* rerata diameter berturut-turut yaitu 8.23, 10.45, 10.48, 13.20, dan 15.45 mm, sedangkan rerata diameter terhadap *S. typhi* yaitu 9.63, 10.67, 10.77, 12.78, dan 13.97 mm.

**Kesimpulan:** Konsentrasi optimum yang dapat menghambat aktivitas bakteri *S. aureus* dan *S. typhi* yaitu pada konsentrasi 100%.

**Kata kunci:** Antibakteri, daun rosella, *Staphylococcus aureus*, *Salmonella typhi*, sumuran.

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**ANTIBACTERIAL ACTIVITY OF ROSELLA LEAF (*Hibiscus sabdariffa*  
L) ETHANOL EXTRACT AGAINST *Staphylococcus aureus* AND  
*Salmonella typhi* WITH WELL METHOD**

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**ABSTRACT**

**Background:** Rosella leaves have many compounds that can function as antioxidants and antibacterials such as polyphenols, flavonoids, saponins which are thought to inhibit bacterial growth. Alkaloids can interfere with the peptidoglycan component of bacterial cells. Flavonoid compounds are able to inhibit nucleic acid synthesis. Saponins have hydrophilic and lipophilic molecules that can lower cell surface tension. Tannins can attack cell wall polypeptides, causing cell damage.

**Objective:** To determine the antibacterial activity of the ethanolic extract of rosella leaves and the optimum concentration that can inhibit the growth of *Staphylococcus aureus* and *Salmonella typhi* bacteria.

**Method:** Rosella leaf extraction was carried out by maceration method using 70% ethanol as solvent. The antibacterial activity test method was carried out by the well method with the treatment group of rosella leaf ethanol extract with concentrations of 20%, 40%, 60%, 80% and 100%. The results of the data were analyzed using the One-Way ANOVA statistical method.

**Result:** The rosella leaf ethanol extract concentrations of 20%, 40%, 60%, 80% and 100% had antibacterial activity against *S. aureus* and *S. typhi*. Ethanol extract of rosella leaves with concentrations of 20%, 40%, 60%, 80%, 100% against *S. aureus* the mean diameter was 8.23, 10.45, 10.48, 13.20, and 15.45 mm, while the average diameter against *S. typhi* was 9.63, 10.67, 10.77, 12.78, and 13.97 mm.

**Conclusion:** The optimum concentration that can inhibit the activity of *S. aureus* and *S. typhi* bacteria is at a concentration of 100%.

**Keywords:** Antibacterial, Rosella leaf, *Staphylococcus aureus*, *Salmonella typhi*, well.

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