

INTISARI

PALUPI, C.W., 2020, AKTIVITAS ANTIBAKTERI TANAMAN LOBAK (*Raphanus sativus* L), KARYA TULIS ILMIAH, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI SURAKARTA.

Tanaman lobak (*Raphanus sativus* L) merupakan salah satu tanaman obat yang banyak digunakan masyarakat sebagai obat tradisional yang mempunyai banyak khasiat. Salah satunya adalah sebagai antibakteri. Penelitian ini bertujuan untuk mengetahui kandungan senyawa kimia perasan umbi lobak putih dan mengetahui aktivitas antibakteri tanaman lobak (*Raphanus sativus* L).

Pada penelitian ini dilakukan uji kandungan kimia perasan umbi lobak putih meliputi senyawa alkaloid, flavonoid, saponin, dan tanin. Uji aktivitas antibakteri tanaman lobak dilakukan melalui metode *literatur review* menggunakan *Google scholar*, *data base* elektronik dengan kata kunci "*Raphanus sativus* L".

Hasil penelitian ini menunjukkan bahwa perasan umbi lobak (*Raphanus sativus* L) mengandung senyawa alkaloid, flavonoid dan saponin. Berdasar *literatur review* menunjukkan bahwa tanaman lobak memiliki aktivitas antibakteri terhadap beberapa bakteri seperti *Klebsiella pneumoniae*, *Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Enterococcus faecalis*, *Bacillus subtilis*, *Salmonella sp*, *Bordetella bronchiseptica*, *Enterobacter aerogenes*, *Shigella sonnei*, *Bacillus cereus*, *Vibrio cholera*, *Aeromonas hydrophila*, *Hafnia alvei*, *Lactobacillus*, *S. pyogenes*, *Proteus sp*, *Micrococcus luteus*, *Enterobacter agglomerans*, *Salmonella typhimurium*.

Kata kunci : Tanaman lobak (*Raphanus sativus* L), bakteri patogen, antibakteri.

ABSTRACT

PALUPI, C.W., 2020, ANTIBACTERIAL ACTIVITIES OF LOBAK PLANT (*Raphanus sativus* L), SCIENTIFIC WRITING, FACULTY OF PHARMACY, UNIVERSITY SETIA BUDI SURAKARTA.

Radish plant (*Raphanus sativus* L) is a medicinal plant that is widely used by people as a traditional medicine which has many properties. One of them is as antibacterial. This study aims to determine the chemical compound content of white radish tuber juice and to determine the antibacterial activity of radish (*Raphanus sativus* L).

In this study, the chemical content of white radish tuber juice was tested, including alkaloids, flavonoids, saponins, and tannins. The antibacterial activity test of radish was carried out through literature review method using Google scholar, an electronic data base with the keyword "*Raphanus sativus* L".

The results of this study indicate that the juice of radish tubers (*Raphanus sativus* L) contains alkaloids, flavonoids and saponins. Based on the literature review, it shows that the radish plant has antibacterial activity against several bacteria such as *Klebsiella pneumoniae*, *Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Enterococcus faecalis*, *Bacillus subtilis*, *Salmonella sp*, *Bordetella bronchiseptica*, *Enterobacter aerogenes*, *Shigella sonnei*, *Bacillus cereus*, *Aeromonas hydrophila*, *Hafnia alvei*, *Lactobacillus*, *S. pyogenes*, *Proteus sp*, *Micrococcus luteus*, *Enterobacter agglomerans*, *Salmonella typhimurium*.

Keywords: Radish plants (*Raphanus sativus* L), pathogenic bacteria, antibacterial.