TEST OF EXTRACT ETHANOL INHIBITION OF MINT LEAVES
(Mentha piperita) TOWARDS THE GROWTH OF
Klebsiella pneumonia

Faradila Indrayanti¹, Sri Sinto Dewi², Fandhi Adi Wardoyo³

¹ Medical Laboratory Study Programe of Health Nursing Faculty Muhammadiyah University of Semarang
² Microbiology Laboratory, Faculty of Nursing and Health Muhammadiyah University of Semarang
³ Chemical Laboratory of the Faculty of Nursing and Health Muhammadiyah University of Semarang

ABSTRACT

Mint leaves is a traditional medicinal plants that have chemical contents, namely essential oils of menthol, menthone include monoterpen, acetate, menthofuran mentil, cineol, and limonene. Essential oils used as antibacterial, antiseptic, antifungi, treatment of the lesions. Klebsiella pneumonia cell wall has a large and produce β-lactamase enzymes that can menghidrolisa β-lactam ring that resulted in these bacteria resistant to antibiotics. The purpose of this research is to know the power of drag that is formed on the media that were planted with Klebsiella pneumonia against granting ethanol extract mint leaves with a concentration of 3% b/v, 5% b/v, 7% b/v, and 10% b/v and knowing the concentration of the ethanol extracts of mint leaves most good in inhibiting the growth of Klebsiella pneumonia. The methods used in testing is the well diffusion method. Results of testing the ethanol extract mint leaves against Klebsiella pneumonia with concentration 3% b/v, 5% b/v, 7% b/v, and 10% can not inhibit the growth of bacteria growth Klebsiella pneumonia.

Keywords: Inhibition test, Klebsiella pneumonia, Mint Leaves Extract