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ANTIBACTERIAL ACTIVITY OF BELIMBING WULUH (Averrhoa bilimbi Linn) EXTRACT ON Salmonella typhi GROWTH
(Fitria Hasdiana, Sutji Kuswarini, Eko Budi Koendhri)

ORAL AND TOPICAL Aloe vera EXTRACT ADMINISTRATION IN DIABETIC MICE (Mus musculus) WOUND HEALING PROCESS
(Pratiths Amalia, Yan Efrata Sembiring, Yuani Setiawati)

EFFECT OF COMBINED 500 mg VITAMIN C AND 200 IU VITAMIN E ON PLASMA MALONDIALDEHYDE LEVEL AFTER PHYSICAL EXERCISE IN DIVING ATHLETES
(Teguh Aryanugraha, Hajarjo JM, Lili Herawati)

ANTIBACTERIAL ACTIVITY OF KUNYIT (Curcuma longa) LEAVES EXTRACT ON Staphylococcus aureus EXAMINED USING DILUTION METHOD
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EXTRACT ON Salmonella Typhi GROWTH

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Abstract

Typhoid fever is an endemic disease which still have high incidence rate especially in developing countries like Indonesia. Typhoid fever is caused by Salmonella typhi. Starfruit (Averrhoa bilimbi Linn) leaf extract has antibacterial capability against some strains of bacteria. Therefore, researchers examined the use of starfruit leaf extract against Salmonella thyphi bacteria. This was a true experimental research that test the antibacterial activity of the starfruit (Averrhoa bilimbi Linn) leaf extract against Salmonella typhi growth. This research using diffusion method on Muller Hinton Agar Palte. Starfruit leaf extracted with ethanol and divided in several concentrations. Statistical tests is conducted with descriptive test and Kruskal Wallis test to compare antibacterial effect of starfruit leaf extract in different concentrations in Salmonella thyphi. Mean diameter of the inhibition on Salmonella typhi antibacterial activity test were as follows : Treatment 1 (0.3 g/ml) = 20.75 mm; Treatment 2 (0.4 g/ml) = 21.88 mm; Treatment 3 (0.5 g/ml) = 22.88 mm; Control 1 (chloramphenicol 30 mcg) = 30 mm; Control 2 (5% DMSO) = 0 mm. Based on the obtained results, qualitatively it can be concluded that the concentration of starfruit (Averrhoa bilimbi Linn) leaf extract gave growth inhibition zone in Salmonella typhi at concentrations of 0.3 g/ml, 0.4 g/ml and 0.5 g/ml. Based on the standard Clinical Laboratory Standard Institute (2008), all of them provide a sensitive response to inhibit the growth of Salmonella typhi as well as giving antibiotic chloramphenicol as control. (FMI 2012;48:144-149)

Keyword : Salmonella, typhi, Averrhoa, bilimbi, Linn, leaf, antibacterial, diffusion,

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