IN VITRO INTRAERYTHROCYTIC ANTIMALARIAL ACTIVITY OF AKAR KUNING (Arcangelisia flava (L.) Merr.) STEM AQUEOUS EXTRACT IN Plasmodium falciparum
(Eric Robhets Lovin, Heny Anawati, Ramadhani RB)

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(Eka Prasetya Budi Mulia, Indah S. Tantular, Abdul Mughni)

EFFECT OF EARTHWORMS (Lumbricus Sp.) EXTRACT ANTIBACTERIAL ACTIVITY AGAINST THE BACTERIA Salmonella Typhii
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IN VITRO ANTIBACTERIAL ACTIVITIES OF COMMERCIAL PROBIOTIC DRINKS AGAINST Salmonella typhii

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Abstract

Typhoid fever that caused by Salmonella typhii become serious problem in Indonesia. Besides, knowledge and study about antibacteria activity of probiotic against Salmonella typhii has not been known. The objective of the present study was to evaluate and compare antibacterial activity of probiotic drinks, they are Y and V, that have different probiotic strain against Salmonella typhii, a causative agent of typhoid fever. Equal amount of Y drink or V drink (1 mL) and S. typhii were mixed. One mL of aliquot was transferred to a petri dish added with 19 mL of melted nutrient agar, vortexed, and incubated at 37°C for 24 hours. The procedure was repeated 6 times. The result shows that bacteria colonies grew in nutrition agar plate in all replication of Y and V drinks. The conclusion of this experiment is that in vitro antibacteria activity against Salmonella typhii does not exist and there was no difference between Y and V drinks. The result obtained in this study supported the use of probiotic isolate or bacteriosin isolate (antibacterial agent of probiotic) as next substance for probiotic test in in vitro studies and we also suggest to undertake in vivo experiment. (FMI 2012;48:109-114)

Keyword : probiotic, Y, drink, V, drink, Salmonella, typhii, antibacterial, activity,

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