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Abstract

Typhoid fever that caused by Salmonella typhi become serious problem in Indonesia. Besides, knowledge and study about antibacteria activity of probiotic against Salmonella typhi 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 typhi, a causative agent of typhoid fever. Equal amount of Y drink or V drink (1 mL) and S. typhi 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 typhi 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, typhi, antibacterial, activity,

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