

**EFFECTIVITY OF BAKTERIOSIN IN SUB-CLINICAL MASTITIS  
THROUGH CALIFORNIA MASTITIS TEST  
AND REDUCTASE TEST**

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**ABSTRACT**

Purpose of this research to prove that the administration of bacteriocin effective against the California Mastitis Test and reductase test. Milk samples obtained directly from each teat dairy cows (*Fresian holstein*) are examined through the CMT to see whether the positive milk samples sub-clinical mastitis. Further examination laboratories are used to support the diagnosis of CMT. Examination laboratories are reductase test to determine the quality of milk. Inspection is conducted every half hour until the blue color disappeared. Milk samples were collected again after the administration of bacteriocin during the next seven days and re laboratorium. Results showed that the antibacterial ability of bacteriocin produced by *Pediococcus pentosaceus*. Scoring results on the use of CMT after bacteriocin showed a decrease in the incidence of sub clinical mastitis compared with before the use of bacteriocin, the decline was also accompanied by high rates of reductase. The conclusion of this research is administration of bacteriocin effective to prevent case of sub-clinical mastitis against the California Mastitis Test and reductase test

*Keyword: Bacteriocin. California Mastitis Test, Reductase test*