THE CORRELATION BETWEEN MILK RING TEST (MRT) AND SOMATIC CELL COUNT (SCC) OF BRUCELLOSIS DISEASE ON THE DAIRY CATTLE AT THE MILK CENTER OF EAST JAVA

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ABSTRACT

The aim of this research was to know the correlation between Milk Ring Test (MRT) and Somatic Cell Count (SCC) of brucellosis disease on sample of milk in bulk tank at the milk center in East Java. The research used the systematic random sampling with 267 samples of milk from bulk tank at KUD Pasuruan, Malang, and Tulung Agung. Based on the research, most of sample (73%) had negative response of MRT with the highest number at the KUD Sriwijati, Pagerwojo. Sample which had response positive three and four of MRT, could suspected brucellosis. Samples from KUD Dadi Jaya had highest SCC of positive MRT about 4,175,000/ml of milk, and the highest SCC of negative’s MRT samples were found at KUD Ngantang with 2,750,000/ml of milk. The result of statistic analysis by Linear Regression method indicated that there is correlation between MRT and SCC ($\alpha=0.05 >$ Sig.=0.000). The result also indicated that 40.1% samples of negative MRT had scores seven of SCC.

Keywords: Brucellosis, Milk Ring Test (MRT), Somatic Cell Count (SCC)