

Title Microbiology quality of raw milk in bulk tanks from dairy farms at Cha-am district, Petchaburi province

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ABSTRACT

The objective was to examine microbiology quality of bulk tank milk from dairy farms at Cha-am district, Petchaburi province. Sampling bulk tank milk during June to September 2013 from dairy cooperative 108 samples (farms) and private dairy milking collecting center 60 samples (farms). The Standard plate count (SPC), Coliform Count; (CC), Laboratory Pasteurized Count (LPC) and Bulk Tank Milk Somatic Cell Count (BTSCC) of sample were examined. Compared the quality of bulk tank milk between dairy cooperative and private dairy milking collecting center. The results showed that the mean of SPC and BTSCC higher than standard. The prevalence of SPC, CC and BTSCC higher than standard was detected 40.83% (69/168), 11.83% (20/168) and 59.76% (101/168) respectively. Compared quality of bulk tank milk between two groups that the geometric mean of SPC, CC, LPC and BTSCC were not statistically difference ($P>0.05$). The results implied that the quality of raw milk in study area is remaining the bacterial contamination from mastitis and improper milking hygiene.

Keywords: Microbiology quality, Bulk tank milk, Dairy farm