Escherichia coli Contamination Levels on Fresh Milk in the Working Area KUD “Karang Ploso” Malang with Most Probable Number Method

Daniel Satriyo Utomo

ABSTRACT

This study aims to determine whether there is contamination of bacteria *Escherichia coli* in fresh milk in the working area KUD "Karang Ploso" Malang. This research was conducted on June – September 2015. 100 ml sample of fresh milk which obtained from 7 post in working area KUD “Karang Ploso” Malang. There are Bocek, Ngenep, Tawangargo, Manggisari, Boro, Supit Urang, Pusat. This research use 20 samples of milk. This research use *Most Probable Number* method to examine *Escherichia coli* in fresh milk. The examination of *Escherichia coli* was conducted at Veterinary Public Health Laboratory, Faculty of Veterinary, Airlangga University. The research data was tested by analyzed descriptive into tables and images. Based on SNI 7388:2009 maximum contamination *Escherichia coli* in fresh milk was < 3/ml. The result showed that the overall sample was contaminated by *Escherichia coli*. Bocek = 85,4/ml, Ngenep = 127,5/ml, Tawangargo = 89,5/ml, Manggisari = 333/ml, Boro = 204,5/ml, Supit Urang = 25,33/ml, Pusat = 87/ml. It was concluded that the fresh milk in the working area KUD “Karang Ploso” Malang was contaminated by *Escherichia coli*, 2 samples weren’t exceeding the limit and other samples exceeding the limit of SNI 7388:2009.

**Key words:** Fresh milk, *Most Probable Number*, *Escherichia coli*, Karang Ploso