ABSTRACT

FUJI MAGHFIRAH SEMESTA. Level of Microorganisms Contamination in Chicken and Beef Meat from Traditional Markets in West Java Province Based on Total Plate Count, Staphylococcus aureus count, and Escherichia coli count. Under direction of HERWIN PISESTYANI and AGATHA WINNY SANJAYA.

This study was aimed to determine the level of microorganisms contamination in chicken and beef meat from traditional markets in West Java. A total of 36 samples of chicken meat and 24 samples of beef meat were taken purposively from traditional markets in West Java. The average of Total Plate Count (TPC), Staphylococcus aureus, and Escherichia coli in chicken meat were $4.5 \times 10^6$ cfu/g, $5.3 \times 10^5$ cfu/g, and $2.3 \times 10^1$ MPN/g. The average of TPC, S. aureus, and E. coli in beef meat were $3.9 \times 10^6$ cfu/g, $1.5 \times 10^6$ cfu/g, and $2.6 \times 10^1$ MPN/g. Comparing to the Indonesian Standard National (SNI) minimal requirement, the result showed that TPC in chicken meat was 47.22%, for S. aureus and E. coli were 97.22% and 69.44% above SNI 3924:2009, in other hands TPC, S. aureus, and E. coli in beef meat were 58.3%, 100%, and 66.67%, above SNI 3932:2008.

Keywords: level of microorganisms contamination, chicken meat, beef meat, Province of West Java