ABSTRACT

ELLANGGA EKO SURYO NUGROHO. Total Plate Count of Chicken and Duck Eggs from Traditional Markets of West Java. Under direction of TRIOSO PURNAWARMAN.

The objective of this research was to study the total plate count of chicken and duck eggs in West Java. This research consist of two parts, data collection using questionnaire and laboratory work. The questionnaire was collected from 35 eggs traders in traditional market of West Java, then analyzed descriptively. There were 25 chicken eggs and 10 duck eggs taken in purpose from traditional markets for sample testing. The average result of microorganism on chicken eggs in Purwakarta, Bogor, Cianjur, Indramayu district, and Cirebon municipality was $1.2 \times 10^2$ cfu/ml, $2.0 \times 10^1$ cfu/ml, $1.2 \times 10^1$ cfu/ml, $2.9 \times 10^2$ cfu/ml, and $6.8 \times 10^5$ cfu/ml respectively. The average result of the total plate count on duck eggs in Indramayu district and Cirebon municipality was $1.2 \times 10^3$ cfu/ml and $2.8 \times 10^4$ cfu/ml respectively. Based on SNI 3926:2008, the maximum limit of total plate count on chicken and duck eggs was $1.0 \times 10^5$ cfu/ml. The result showed that number of microorganism did not comply with SNI of chicken and duck eggs were 4% and 10%.

Keywords: Total plate count, chicken eggs, duck eggs, West Java.