MOST PROBABLE NUMBER (MPN) OF *Escherichia coli* ISOLATED FROM WATER USED BY THE FOOD VENDORS AROUND CAMPUS OF VETERINARY MEDICINE FACULTY OF AIRLANGGA UNIVERSITY

ABSTRACT

Changes of water quality can be affected by level of bacterial contamination in the water. One of bacteria that used as indicators of hygiene sanitary is *Escherichia coli*. The purpose of this study was to measure the value of MPN of *E. coli* in water used by food vendors around campus of Veterinary Medicine Faculty of Airlangga University. Ten water samples taken from ten food vendors. *Most Probable Number* method was used to determined the level of *E. coli* in contaminated water. The results of the study showed 8 of samples contaminated with *E. coli*. MPN value ranges between 0-278 MPN / ml. The highest MPN value was sample A10 with a value of 278 MPN / ml , while two samples (A6 and A7) was 0 MPN/ml .

Keyword : Water, *Escherichia coli*, MPN, Food, Food Vendors.