

STUDY BIOLOGICAL CHARACTERISTICS OF *ESCHERICHIA COLI* ORIGINATED IN PORKS IN LAO CAI CITY

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Summary

Biological characteristics and gen related to creation of toxology of *Escherichia coli* in porks at the markets in Lao Cai were determined based on traditional methods as well as advanced method, such as molarcular biological method in order to prevent the infection of *E. coli* in pork and control food sacurity. Firstly, the results of this study shown that, the ratio of pork infected *E. coli* was 74.52%; the percentage of pork, which were not quality assureance, was 29.04%; the proportion of pork infected *E. coli* depend on the sampling time during the day; highly virulent isolates of *E. coli* killed 100% mice after 48 hours of infection; *E. coli* isolated strain was very sensitive with some tested antibiotics; determining 3/6 strains (50%) were positive with VT1 gene. Finally, the result also shown that 4/6 strains (66,67%) were positive with VT2 gene.

Key words: *Biological chracteristics, pork, Lao Cai province, E. coli bacteria.*