ABSTRACT

The purpose of this study was for describing the resistance of the Erythromycine, Ceftriaxone, Gentamycin, Tetracycline, and Meropenem antibiotic from Escherichia coli bacteria. 30 sample were collected from 5 different traditional market (Sepang, Waru, Larangan, Wadungasri, Krian) each of them was taken 6 sample from different stall. Sample was collected by swabbing the surface of the meat. Isolation and Identification from the swabbed sample would be confirmed by BGBB, EMBA, TSIA, Indol test using SIM. Isolated Escherichia coli would be tested by using antibiotic sensitivity test with Kirby-Bauer method. The resistance test results of 19 isolates of Escherichia coli found that bacteria were 100% sensitive to antibiotics Meropenem, 94,7% on antibiotics Ceftriaxone, 89,4% on antibiotics Gentamycin, 63,1% on antibiotics Erytromycine, and 10,5% on antibiotics Tetracycline. Escherichia coli isolates which showed intermediate interpretation of 5,2% against antibiotics Erythromycine, Gentamycin, and Tetracycline. Escherichia coli isolates which had the highest resistance level on Tetracycline antibiotics as many as 6 isolates (31,5%) and 1 (5,2%) isolates in antibiotics Cestriaxone and Gentamycin.

Keywords: Escherichia coli, Tetracycline, Erythromycine, Gentamycin, Meropenem, Ceftriaxone, Sensitivity test