

**DETECTION OF ENCODING GENE *Extended Spectrum β-Lactamase (bla<sub>TEM</sub>)* ON *Escherichia coli* ISOLATED FROM BROILER CHICKEN MEAT IN TRADITIONAL MARKET SURABAYA**

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**ABSTRACT**

This study aims to isolate, to identify, and to seek out fragments of encoding gene Extended Spectrum β-Lactamase on *Escherichia coli* isolated from swab surface of broiler chicken meat in a number of traditional markets in Surabaya. The result shows that 31 out of 50 samples positively contain *Escherichia coli*, shown through EMBA isolation media and identified using indole test. Sensitivity test shows that 100% of the isolates are resistant to Ampicilin, 48.4% are resistant to Cephazoline, 13% are resistant to Ceftazidime, 9.6% are resistant to Cefotaxime, 6.4% are resistant to Ceftriaxone and 87.2% are resistant to Tetracycline. 8 out of 8 (100%) samples of *E. coli* resistant show the presence of band towards *bla<sub>TEM</sub>* gene of 918 basepair (bp).

**Keywords :** Extended Spectrum β-Lactamase, *Escherichia coli*, broiler chicken meat, *bla<sub>TEM</sub>* gene, antimicrobial resistance