

**RESISTANCE TEST OF *Staphylococcus Aureus* IN ETAWA
CROSSBREED GOAT MILK INFECTED WITH
SUBCLINICAL MASTITIS AGAINST
PENICILLIN, STREPTOMYCIN
AND OXYTETRACYCLINE AT
KALIPURO, BANYUWANGI**

Laila Nur Hayati

ABSTRACT

Staphylococcus aureus is one of the bacteria frequently causes subclinical mastitis in goats. Antibiotics are needed as a treatment of mastitis due to *Staphylococcus aureus* infection. This study was aimed to determine the resistance of *Staphylococcus aureus* in Etawa Crossbreed Goat milk in Kalipuro, Banyuwangi against penicillin, streptomycin and oxytetracycline antibiotics. A total of 58 milk samples which detected positive within screening of Californian Mastitis Test (CMT) were used in this study. The result of 17 subclinical samples were continued with *Staphylococcus aureus* isolation test using Manitol Salt Agar (MSA) and identification test with Gram staining, and biochemistry test. Moreover, the conclusion of this study showed that 16 (100%) samples were resistant to penicillin, 9 (56,3%) samples were sensitive, 2 (12,5%) samples were intermediate and 5 (31,3%) samples were resistant to oxytetracycline; 8 (50%) samples were sensitive, 2 (12,5%) samples were intermediate and 6 (37,5%) samples were resistant to streptomycin.

Keywords : Antibiotic resistance, Etawa Crossbreed Goat, milk, *Staphylococcus aureus*, subclinical mastitis