RESISTANCE DETECTION OF SOME ANTIBIOTICS IN *Staphylococcus aureus* ISOLATED FROM RUKMINI’S DAIRY FARMS IN BENDUL MERISI SURABAYA

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**ABSTRACT**

The aim of this research was to show the profile of *S. aureus* bacteria isolated from fresh milk from Rukminis dairy farms in Bendul Merisi Surabaya against antibiotics oxacillin, penicillin, amphicillin, and gentamicin. The study used purposive sampling method. About 15 samples isolated on Mannitol Salt Agar media (MSA) from the result which identified as *Staphylococcus sp* was 12, then the positive result of 12 sample gram staining, the positive result of 12 sample catalase test, and then 10 (67%) showed the positive sample of *S. aureus* on coagulase test. Antibiotic disk used i.e oxacillin, penicillin, amphicillin, gentamicin by using Kirby Bauer method. Inhibiton diameter zone measured at millimeter to determined a sensitivity level of antibiotic. The result showed about 10 (100%) of samples was resistant to Antibiotic oxacillin type, 10 (100%) of samples was resistant to penicillin, 7 (70%) samples was resistant to amphicillin, 3 (30%) of samples was sensitive to amphicillin, and 10 (100%) of samples was sensitive to gentamicin.

**Key words** : Dairy farm, *S. aureus*, Sensitivity, Antibiotic, Fresh milk.