

**STUDY OF BACTERIAL COLONY MORPHOLOGY *Staphylococcus epidermidis* AND *Klebsiella pneumoniae* ON THE BLOOD AGAR PLATE FROM BACTERIA ISOLATED CAUSED SUBCLINICAL MASTITIS FROM ETTAWAH CROSSBREED GOATS IN TURI, SLEMAN, YOGYAKARTA**

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**15/384523/SV/08880**

**ABSTRACT**

The aim of bacteria culture on blood agar medium is for supporting bacteria growth and differing colony morphology of microorganism. Sheep blood which is used in blood agar has undergone the defibrination process. Sheep blood has well established erythrocyte compartment so bacteria will easily lysis the blood. Bacteria that can grow on blood agar medium are Gram positive and Gram negative. *Staphylococcus epidermidis* and *Klebsiella pneumoniae* are bacteria which cause mastitis ettawah crossbreed goats. The bacterial morphology in blood agar can be found in colony morphology (such as colour, size, form, elevation, and margin on edge) and the bacteria ability in erythrocytes hemolysis (alfa hemolysis, beta hemolysis, gamma hemolysis). *Staphylococcus epidermidis* on medium blood agar is formed in medium colony with white colony to beige color, convex elevation angle, and has an ability to process blood hemolysis with type  $\beta$ -hemolisa. *Klebsiella pneumoniae* on blood agar is large in colony size, grey colored, smooth surfaced, convex elevated in angle, mucoid, and unable to blood hemolysis.

**Keyword:** blood agar, colony morphology, hemolytic, *Staphylococcus epidermidis*, *Klebsiella pneumoniae*,