

## ABSTRACT

**Dwi Annisa Putri, NIM : 1534012, 2019.** The comparison colony number of *Klebsiella Pneumoniae* bacteria on Eosin Methylene Blue (EMB) and Endo Agar Plate (EAP) culture medium. Bachelor Thesis. DIV Medical Analysis Study Program, Faculty of Medical Science, Universitas Katolik Musi Charitas Palembang.

**Background:** *Klebsiella pneumoniae* is a normal flora bacteria which commonly found on *tractus digestivus*. The laboratory measurement can be conducted by calculating the number of germ or bacteria which is inoculated on *Eosin Methylene Blue* and *Endo Agar Plate* culture medium. The present study aims to compare the number of bacterial colonies of *Klebsiella pneumoniae* which is regrown on *Eosin Methylene Blue Agar* and *Endo Agar Plate* culture medium.

**Method:** This present study is true experiment research which uses *Klebsiella pneumoniae* as the main sample. The study began by regrowing *Klebsiella pneumoniae* on *Eosin Methylene Blue* and *Endo Agar Plate*. All the deposited-*Klebsiella pneumoniae* is incubated at the temperature of 37°C for 48 hours and calculated. Furthermore, the experiment is repeated for 16 times to prove all the obtained data repeatable. All the obtained data is statistically analyzed using *paired T-test* with a confidence level of 95%.

**Result:** The result shows that the average number of *Klebsiella pneumoniae* bacteria colonies grown on *Eosin Methylene Blue* and *Endo Agar Plate* are 67 colonies forming unit (CFU)/ml and 64 colonies forming unit (CFU)/ml, respectively. Furthermore, statistical analysis using *paired T-test* confirmed that there is no significant difference of *Klebsiella pneumoniae* colonies number grown on *Eosin Methylene Blue* and *Endo Agar Plate* culture mediums. It is based on the significance value (p-value) showing 0,664 which is higher than the significant level ( $\alpha = 0,05$ ) (p-value > 0,05).

**Conclusion:** There is no significant difference of *Klebsiella pneumoniae* colonies number grown on *Eosin Methylene Blue* and *Endo Agar Plate* culture mediums

---

**Keywords:** *Klebsiella pneumoniae*, *Eosin Methylene Blue*, *Endo Agar Plate*