

## ABSTRACT

**Regen Yudistara, NIM: 1534016, 2019.** The number of colonies of *Candida albicans* Differences In Media EMB (eosin methylene blue) and SDA (Sabouroud Dextrose Agar). Essay. DIV Studies Program Analyst Catholic University Health Charitas Palembang Musi.

**Background :** Identification of *C. albicans* fungus in the laboratory can be done by culturing the fungus *C. albicans* in the media SDA (Sabouroud Dextrose Agar) which is a selective media and standard medium for culturing the fungus *C. albicans* but not all labs have SDA media, for that is what it takes media alternatives to growing the fungus *C. albicans* one media EMB (eosin Methylen Blue) containing carbohydrates and protein that is comparable with SDA media. This study was conducted to determine the amount of colonies of *Candida albicans* Differences In Media EMB (eosin methylene blue) and SDA (Sabouroud Dextrose Agar).

**Method :** This type of research is the study of True experiment with posttest study design Only Control Group Design. This study uses the media EMB (eosin methylene blue) and SDA (Sabouroud Dextrose Agar) with each - each group numbered 16. The fungus *C. albicans* were inoculated on EMB media and SDA medium and incubated at 37°C, Then the data were analyzed using *Paired sample t-test* with a 95% confidence level.

**Results:** At SDA media *C. albicans* fungal growth occurs with the average - average 153.75 colonies CFU / mL and EMB media *C. albicans* fungal growth occurs with the average - average 189.38 colonies CFU / mL. The test results showed statistically significant differences (0,007) in SDA media and EMB.

**Conclusion:** Pursuant to the results of the study there are differences in the growth of the number of *C. albicans* fungal colonies growing on SDA media and EMB media.

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**Keywords :** *Candida albicans*, EMB, SDA