

CHAPTER V. CONCLUSION

5.1 Conclusions

Based on research that has been conducted on The Productivity and Growth of Gray Oyster Mushroom (*Pleurotus sajor-caju* (Fries) Singer) in the Limau Manis Area, Padang City, the following conclusions are obtained:

1. The average growth of gray oyster mushroom mycelium on corn media was 0,83 cm/day and 1,02 cm/day on bag log media.
2. The highest productivity of gray oyster mushrooms (*Pleurotus sajor-caju* (Fries) Singer) reached 48,59% with the highest total body weight of 388,73 grams. The highest number of fruiting body caps is 43 pieces. While the weight of the heaviest fruiting body cap reached 30,6 grams with the largest pileus diameter of 17,5 cm.
3. The average polyphenol content in gray oyster mushrooms obtained was 401,58 g GAE/g dry weight and the average antioxidant content obtained was 146 g AAE/g dry weight.

5.2 Suggestion

Based on the research results that have been obtained, it is better to optimize the production of gray oyster mushrooms through the composition of the medium and the setting of environmental factors in the mushroom house.