

CHAPTER V. CONCLUSION AND SUGGESTION

5.1. Conclusion

Based on the research result, it can be concluded that :

1. The individual auxin and combined with cytokinins similarly could be applied to the induction of SE induction in *D. mussauense*. The medium supplemented with auxin and cytokinins combinations was a significant difference in emergence time of somatic embryogenesis, showed no significant difference in the percentage of SE and number of SE *D. mussauense*.
2. The combination of 2,4-D and TDZ to the medium resulted in the shortest time for SE emergence than 2,4-D alone. The most effective treatment 2,4-D 1 mg/L+ 0.25 mg/L of TDZ was the shortest time for SE emergence of *D. mussauense*.

5.2. Suggestion

Based on the research, SE induction in *D. mussauense* is recommended use ½ MS medium supplemented with high concentrations of 2,4-D combined with low concentrations of cytokinins. The addition of natural antioxidants are used to prevent enzymatic browning, such as ascorbic acid (AA) and citric acid (AC), and activated charcoal. This is vital to multiply and supply *D. mussauense* of superior quality on a large-scale within a relatively short period of time.