

CHAPTER V. CONCLUSIONS AND SUGGESTIONS

5.1 Conclusion

Based on the results of the research that has been done, the following conclusions are obtained:

1. The highest current density in MFC with POME and Tofu Wastewater as a substrates reached up to 688.375 mA/m² at 96 hour and an average electricity production for 5 days of 655.54 mA/m².
2. MFC with the addition of 2% glucose had a better and more stable current density with the highest electricity production reaching 1007.48 mA /m² at 92 hours.
3. Three bacterial isolates were found on the MFC anode, namely MFC01, MFC02 and MFC03. The results of the identification of the three isolates were 2 groups of gram-positive bacteria, namely *Bacillus* sp.1 and *Bacillus* sp.2, and 1 group of gram-negative bacteria, namely *Enterobacter* sp.

5.2 Suggestions

Based on the research that has been done, there are several suggestions that can be made for further research, namely:

1. Carrying out further research using various types of MFCs and focusing on microbiological aspects to improve the power performance of MFCs.
2. The obtained bacterial isolates need to be further identified molecularly

