

V. CONCLUSIONS AND SUGGESTION

5.1 Conclusions

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

1. Flower and fruit extracts from *S. javanica* showed antimicrobial activity, the effect of each extract treatment againsts *E. coli* and *S. aureus* are significantly different, with the largest inhibition zone is fresh fruit (11.9 mm) and (13.7 mm) and not significantly different against *C. albicans* with the largest inhibition zone is fresh flower (6.8 mm).
2. The MIC of *S. javanica* against *E. coli* and *S. aureus* is 12.5%, meanwhile MIC for *C. albicans* and MLC for all pathogenic microbes was not found.
3. The highest antioxidant value of *S. javanica* was in fresh fruit extract at IC₅₀ (58.74 µg/mL) in strong category.

5.2 Suggestion

It is recommended to conduct further research on phytochemical test of flower and fruit from *S. javanica* and continue research about antibacterial activity of *S. javanica* against *S. aureus* (as the most sensitive microbe to *S. javanica* extract based on recent research).