

## CHAPTER 7

## CONCLUSION AND SUGGESTION

## 7.1 Conclusion

Based on the research result, it can be concluded that ethanol extract bay leaf have a repellent effect towards fire ants *Solenopsis sp.* The higher the concentration of ethanol extract of bay leaf, the higher the potential repellent effect of the extract towards the fire ants. The longer the duration of experiment, the lower the potential effect of ethanol extract bay leaf (*Laurus nobilis*) as repellent towards fire ants (*Solenopsis sp.*). The most effective concentration of bay leaf extract to be able to use as fire ants repellent is 50 % concentration and the most effective duration is the first three hours.

## 7.2 Suggestions

Further studies can be directed toward investigating:

- The mechanism of the active ingredient in the bay leaf extract as a repellent towards the fire ants *Solenopsis Sp.*
- The long term effect of repellent storage and the reduction of the repellent strength.
- The side effect of using bay leaf extract as a repellent.
- More investigations should be done about the potential repellent effect of extract bay leaf (*Laurus nobilis*) on different species of ant.