CHAPTER IX

SUGGESTIONS FOR FURTHER RESEARCH

9.1 Suggestions

In the present study, elaborate work on the chemical modification of cellulose and chitosan, its applications on cotton fabric were carried out. Still there are some further studies are needed in order to understand clearly about the mechanism of composite formation, crosslinking and its effects on antibacterial activity. This may be achieved by doing the following chemical treatments;

1. The chitosan may be treated with different ratio of zinc chloride and sodium hydroxide; zinc acetate and sodium hydroxide.

2. Crosslinking of chitosan and its composites with cotton fabric may be carried out using other vinyl monomers.

3. In the modification and crosslinking, instead of acetone other solvents may be used.

4. Crosslinking may also be given by grafting technique.