

CHAPTER V

CONCLUSIONS

The present work indicates that benzoxazine monomer shows ion extraction property for various ions via its inclusion phenomena. Benzoxazine which has different functional groups on phenolic moiety showed the different ion extraction ability. This may be due to the formation of the molecular assembly. Owing to the steric effect of benzoxazine monomer, the molecular assembly can be evaluated as a loose and flexible structure which allows the ion entrapment be high capability. However, the concerned monomer does not show the significant guest selectivity. In order to develop the selectivity for the molecular assembly, a molecular design for benzoxazine assembly structure, such as macrocyclic benzoxazine, is an interesting approach to be considered.