

## Contents

Chapter	Page
I : Introduction	1 – 19
II : Scope and Objectives	20 - 21
III : Spectroscopic and thermodynamic study of charge transfer complexes of cloxacillin sodium in aqueous ethanol medium	22-46
IV: Spectroscopic and thermodynamic study of charge transfer complex formation between cloxacillin sodium with riboflavin in aqueous ethanol media of varying composition	47 – 64
V: Spectroscopic and thermodynamic study of charge transfer interaction between vitamin B <sub>6</sub> and <i>p</i> -chloranil in aqueous ethanol mixtures of varying composition	65 – 86
VI : Inclusion of Riboflavin in $\beta$ -Cyclodextrin: A fluorimetric and absorption spectrometric study	87 – 99
VII : Correlation of CT transition energies of the cloxacillin sodium complexes with DFT calculated LUMO energies of the acceptors	100 – 112
VIII : Summary	113 - 116