

TABLE OF CONTENTS

Acknowledgements

Prologue

Abbreviations

Chapter 1 Literature Review

Section I	Urease	1 - 22
Section II	Protein Renaturation	23 - 43
Section III	Biosensors and Immobilization	44 - 78

Chapter 2 Urease Renaturation

Section I	Investigation of conditions for Urease Renaturation	79 - 102
Section II	Mechanism of L-Arginine Induced Renaturation	103 - 116

Chapter 3 Urease Immobilization

Section I	Immobilization of Pigeonpea Urease on DEAE-Cellulose Paper Strips for Urea Estimation	117 - 130
Section II	Improved Stability of Urease upon Coupling to Alkylamine and Arylamine Glass and its Analytical Use	131 - 152

Chapter 4 Urea Biosensor 153 - 172

Chapter 5 Urease Inhibition

Section I Urease Inhibition by Boric and Boronic acids 173 - 182

Section II Demonstration of Molecular Asymmetry in Pigeonpea Urease: pH Inactivation Studies 183 - 187

References 188 - 224

List of Publications