CONTENTS

CHAPTER 1

INTRODUCTION	
1.1 Acetylcholineasterase based biosensor	1-4
1.2 Role of acetylthiocholin	
1.3 Literature Survey	
1.4 Scope, aim and objective of the work	
CHAPTER 2	
EXPERIMENTAL	
2.1 Chemicals and reagents.	5-7
2.2 Instrument.	
2.3 Preparation of the bio sensor.	
2.3.1 Re-sealing of the platinum electrode.	
2.3.1 Immobilization of the enzyme.	¥
2.4 Electrochemical testing of the sealing material.	
2.5 Testing of resistance towards organic solvents.	
2.6 Testing of immobilization.	
2.7 Operational and storage stability.2.8 Pesticide detection.	
2.8 Pesticide detection.	
CHAPTER 3	
RESULT AND DISCUSSION	
3.1 Electrochemical testing of the sealing material of the	
electrode.	8-13
3.2 Testing of resistance towards organic solvents.	
3.3 Testing of immobilization.	
3.4 Saturated substrate concentration.	
3.5 Calibration of the sensor.	
3.6 Pestcide detection.	ė
3.7 Conclusion	
3.8 Future scope.	
REFERENCES	14-16
APPENDIX	17