

## TABLE OF CONTENTS

Sr. No.	Title	Description	Page No.
1.	<b>Synopsis</b>	Synopsis of the Thesis submitted to M. S. University of Baroda	1
2.	<b>Chapter 1</b>	Introduction	16
3.	<b>Chapter 2</b>	Effect of Picrotoxin-induced Convulsions on Oxidative Energy Metabolism in Rat Brain and liver Mitochondria	102
4.	<b>Chapter 3</b>	Effect of Picrotoxin-induced Epileptic Condition and Antiepileptic Drug Treatment on Rat Brain Mitochondrial ATPase Kinetics Properties	139
5.	<b>Chapter 4</b>	Effect of Picrotoxin-induced Epileptic Condition and Antiepileptic Drug Treatment on Liver Mitochondrial ATPase Kinetics Properties	179
6.	<b>Chapter 5</b>	Effect of Picrotoxin-induced Epileptic Condition and Antiepileptic Drug Treatment on Rat Brain Mitochondrial Lipids	212
7.	<b>Chapter 6</b>	Effect of Picrotoxin-induced Epileptic Condition and Antiepileptic Drug Treatment on Liver Mitochondrial Lipids	246
8.	<b>Chapter 7</b>	Effect of Picrotoxin-induced Epileptic Condition and Antiepileptic Drug Treatment on Lysosomal Function in Rat Brain and Liver	276
9.	<b>Chapter 8</b>	An Improved Micromethod for Tyrosine Determination and its Application for Tyrosine Analysis in Enzyme Assay	322