

Contents

CONTENTS

S.NO.	TITLE	PAGE NO.
	List of Tables	
	List of Figures	
	List of Plates	
	List of Appendices	
1	INTRODUCTION	1
2	REVIEW OF LITERATURE	5
3	MATERIALS AND METHODS	23
4	RESULTS AND DISCUSSION	31
5	SUMMARY AND CONCLUSION	55
	BIBLIOGRAPHY	
	APPENDICES	

LIST OF TABLES

TABLE.NO.	TITLE	PAGENO.
I	BLOOD GLUCOSE LEVEL IN NORMAL AND DIABETIC ANIMALS	33
II	ACTIVITIES OF ENZYMIC ANTIOXIDANTS IN THE SELECTED MEDICINAL PLANT	36
III	LEVEL OF ENZYMIC ANTIOXIDANTS IN NORMAL AND DIABETIC ANIMAL GROUPS	39
IV	LEVEL OF NONENZYMIC ANTIOXIDANTS IN THE PLANT SAMPLE	42
V	LEVEL OF NON-ENZYMIC ANTIOXIDANTS IN NORMAL AND TREATED ANIMAL GROUPS	45
VI	EFFECT OF <i>Aristolochia bracteolata</i> ON INHIBITION OF INVITRO LIPID PEROXIDATION, SUPEROXIDE AND NITRIC OXIDE GENERATION	48
VII	DPPH AND ABTS RADICAL SCAVENGING EFFECT OF <i>Aristolochia bracteolata</i>	51

LIST OF FIGURES

FIGURE NO.	TITLE	PAGENO.
I	BLOOD GLUCOSE LEVEL IN NORMAL AND TREATED ANIMAL GROUPS	34
II	LEVEL OF ENZYMIC ANTIOXIDANTS IN <i>Aristolochia bracteolata</i>	37
III	LEVEL OF ENZYMIC ANTIOXIDANTS IN NORMAL AND TREATED ANIMAL GROUPS	40
IV	LEVEL OF NON-ENZYMIC ANTIOXIDANTS IN <i>Aristolochia bracteolata</i>	43
V	LEVEL OF NON-ENZYMIC ANTIOXIDANTS IN NORMAL AND STREPTOZOTOCIN INDUCED DIABETIC GROUPS	46
VI	PERCENTAGE INHIBITION OF LIPID PEROXIDATION, SUPEROXIDE AND NITRIC OXIDE GENERATION BY <i>Aristolochia bracteolata</i>	49
VII	DPPH AND ABTS RADICAL SCAVENGING EFFECT OF <i>Aristolochia bracteolata</i>	52

LIST OF PLATES

PLATE NO.	TITLE	PAGENO.
1	MEDICINAL PLANT SELECTED FOR THE STUDY	23
2	EXTRACTION OF THE PLANT SAMPLE IN SOXHLET APPARATUS	24
3	EXPERIMENTAL ANIMALS	24
4	HISTOLOGICAL OBSERVATIONS OF CONTROL AND EXPERIMENTAL RAT LIVER	54

LIST OF APPENDICES

S. NO.	TITLE
I	ESTIMATION OF BLOOD GLUCOSE
II	ESTIMATION OF CATALASE ACTIVITY
III	ESTIMATION OF PEROXIDASE ACTIVITY
IV	ESTIMATION OF SUPEROXIDE DISMUTASE ACTIVITY
V	ASSAY OF GLUTATHIONE-S-TRANSFERASE
VI	ESTIMATION OF ASCORBIC ACID
VII	ESTIMATION OF α - TOCOPHEROL
VIII	ESTIMATION OF REDUCED GLUTATHIONE
IX	ESTIMATION OF PROTEIN
X	ASSAY OF LIPID PEROXIDATION
XI	DETERMINATION OF INHIBITION OF SUPEROXIDE GENERATION
XII	DETERMINATION OF INHIBITION OF NITRIC OXIDE GENERATION
XIII	DPPH SCAVENGING EFFECT
XIV	ABTS RADICAL SCAVENGING EFFECT
XV	HISTOPATHOLOGICAL TECHNIQUE