

LIST OF FIGURES

S. No.	Figure	Page No.
1	Antifungal compounds	17
2	Ginkgolite B	18
3	Appearance of endophytic fungi from <i>Calotropis procera</i> root Stem and leaf segments after 2-3 Days of incubation of plant materials	26
4	Flow chart of Extraction of Metabolites: Chromatographic separation	29-30
5	Antibacterial activity test of crud metabolite (Ethylacetate extract) of isolate CPR 5 against bacterial species	32
6	Different stages of column chromatography during fractionation of crude metabolite	37
7	TLC of eight fractionated compounds.	39
8	Antibacterial activity test of 24 human pathogenic bacteria	47
9	Morphological Structure	51
10	Phylogenic tree analysis based on 18S rRNA sequence of isolate CPR 5	53
11	Effect of various carbon sources on antimicrobial agent production	55
12	Effect of yeast extracts concentration on antimicrobial agent production	55
13	Effect of temperature on production of antimicrobial metabolite	56
14	Effect of various concentration of NaCl on production of antimicrobial metabolite	57
15	Effect of initial pH on antimicrobial agent production	58
16	Effect of incubation period on antimicrobial agent production	58
17	Effect of nitrogen sources on antimicrobial agent production	60
18	Structure of Compound 1	61
19	¹³ C MNR of Compound 1	62
20	¹ H MNR of Compound 1	63
21	ESI-MS of Compound 1	64

22	Structure of Compound 2	65
23	¹ H MNR of Compound 2	66
24	¹³ C NMR of Compound 2	67
25	ESI-MS of Compound 2	68
26	Structure of Compound 3	69
27	¹³ C NMR of Compound 3	70
28	¹ H NMR of Compound 3	71
29	ESI-MS of Compound 3	72
30	Structure of Compound 4	73
31	¹ H NMR of Compound 4	74
32	¹³ C NMR of Compound 4	75
33	ESI-MS of Compound 4	76
34	Structure of Compound 5	77
35	¹³ C NMR of Compound 5	78
36	¹ H NMR of Compound 5	79
37	ESI-MS of Compound 5	80
38	Structure of Compound 6	81
39	¹³ C NMR of Compound 6	82
40	¹ H NMR of Compound 6	83
41	ESI-MS of Compound 6	84
42	Structure of Compound 7	85
43	¹³ C NMR of Compound 7	86
44	¹ H NMR of Compound 7	87
45	ESI-MS of Compound 7	88
46	Structure of Compound 7	89
47	¹³ C NMR of Compound 8	90
48	¹ H NMR of Compound 8	91
49	ESI-MS of Compound 8	92
