

LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
Figure 2.1 : Enzymatic and hormonal pathways in RAAS	10
Figure 2.2 : <i>Ganoderma lucidum</i>	22
Figure 2.3 : Life cycle of <i>G. lucidum</i>	25
Figure 3.1 : ACE inhibitory assay principle applied for ACE-Kit WST	30
Figure 4.1 : <i>Ganoderma lucidum</i> mycelia in Petri plate	56
Figure 4.2 : Mycelia biomass following separation from broth culture	56
Figure 4.3 : Mycelia plugs at day 0 of cultivation	57
Figure 4.4 : Mycelia development after 7 days of cultivation	57
Figure 4.5 : ACE inhibition curve for Captopril	58
Figure 4.6 : Inhibitory effect by crude water extracts at 10 mg/mL	60
Figure 4.7 : Inhibitory curve for mycelia crude water extract	60
Figure 4.8 : SDS-PAGE profile of mycelial proteins following ammonium sulphate precipitation	61
Figure 4.9 : Inhibition percentage of protein fractions at concentration of 200 µg/mL	63
Figure 4.10 : Inhibitory curve for fractions A, B and C	63
Figure 4.11 : HPLC profile of fraction A at superimposed image	64
Figure 4.12 : HPLC profile of fraction C at superimposed image	65
Figure 4.13 : Inhibition percentage of HPLC eluted peaks at 25 µg/mL	67
Figure 4.14 : Inhibitory curve for C3, C4 and C5	67
Figure 4.15 : SDS-PAGE profile of anti-ACE fractions	69
Figure 4.16 : Standard curve for protein molecular weight determination	69