LIST OF TABLES

Table 1: Summary of the available drugs that are used to treat hypoglycaemia-25

Table 2: Botanical sources, active compounds and medical uses-28

Table 3: Classification of plant polyphenols based on the number of carbon atoms-29

Table 4: Percentage yield of the plant extracts with different solvents-37

Table 5: Qualitative Phytochemical screening of different solvent extracts of
    Anethum graveolens-59

Table 6: Qualitative Phytochemical screening of different solvent extracts of
    Triticum aestivum-60

Table 7: Qualitative Phytochemical screening of different solvent extracts of
    Coriandrum sativum-61

Table 8: Qualitative Phytochemical screening of different solvent extracts of
    Cinnamomum tamala-62

Table 9: Total phenolic, flavonoids and flavonol contents in different plant extracts-63

Table 10: Alpha glucosidase activity using various concentrations of the methanolic extracts of the selected plants-66

Table 11: Alpha amylase activity using various concentrations of the methanolic extracts of the selected plants-66

Table 12: DPPH scavenging activity of methanolic extracts of the selected plants-69

Table 13: Superoxide Radical scavenging activity of methanolic extracts of the selected plants-69

Table 14: $^1$H-NMR and $^{13}$C-NMR data of the isolated compounds-72
Table 15- Effect of plant fractions on fasting blood sugar in control and diabetic rats-83

Table 16- Effect of plant fractions on normal and glycated Haemoglobin in control and diabetic rats-83

Table 17- Effect of plant fractions on serum triglycerides and total cholesterol in control and diabetic rats-87

Table 18- Effect of plant fractions on the levels of blood phospholipids in control and diabetic rats-87

Table 19- Effect of plant fractions on plasma leptin levels.-127