

LIST OF TABLES

Table 3.1: Structural information of molecular targets	32
Table 3.2 Grid box parameters of protein targets	35
Table 3.3 Molecular drug properties of WS phytochemicals.	37
Table 3.4: Molecular docking results of screened ligands	39
Table 3.5 Docking results of tested ligands against MMP-2	41
Table 3.6 Molecular docking results of selected ligands against MMP-9	43
Table: 3.7 Binding Energy and Ki value of screened ligands against NOSs	44
Table 3.8 nNOS/iNOS selectivity over eNOS of eight phytochemicals and 7-NI inhibitor	45
Table 4.1 PK parameters of CGA after IN and IV administration to rats	63
Table 4.2 HPLC method parameters for calibration, accuracy and precision of CGA	64
Table 4.3: Exposure of single CGA dose of 10mg/kg at 30, 60, 120, 240 and 360 minutes post administration	66
Table 5.1. The HPLC method parameters for calibration, accuracy, and precision	80
Table 5.2. The mean concentrations of the nitrate in rat brain samples and CSF	81