

List of Tables

Table 1: Morphometric data of all the stages of <i>T. castaneum</i> (Egg, Larva, pupa & Adult) of F1 generation.....	58
Table 2: Chemical composition of the essential oils of <i>Artemisia annua</i> extracted with methanol.....	65
Table 3: Chemical composition of the essential oils of <i>Artemisia annua</i> extracted with chloroform.....	68
Table 4: Chemical composition of the essential oils of <i>Artemisia annua</i> extracted with petroleum ether.....	71
Table 5: Chemical composition of the essential oils of <i>Artemisia annua</i> extracted with n-hexane	74
Table 6: Repellency of methanol derived EOs of <i>A. annua</i> against <i>T. castaneum</i> adults using filter paper arena test	78
Table 7: Repellency of chloroform derived EOs of <i>A. annua</i> against <i>T. castaneum</i> adults using filter paper arena test	79
Table 8: Repellency of petroleum ether derived EOs of <i>A. annua</i> against <i>T. castaneum</i> adults using filter paper arena test	80
Table 9: Repellency of n-hexane derived EOs of <i>A. annua</i> against <i>T. castaneum</i> adults using filter paper arena test	81
Table 10: Repellency of EOs of <i>Artemisia annua</i> extracted with methanol against <i>Tribolium castaneum</i> adults using Multi arm olfactometer bioassay..	82
Table 11: Repellency of EOs of <i>Artemisia annua</i> extracted with chloroform against <i>Tribolium castaneum</i> adults using Multi arm olfactometer bioassay..	83
Table 12: Repellency of EOs of <i>Artemisia annua</i> extracted with petroleum ether against <i>Tribolium castaneum</i> adults using Multi arm olfactometer bioassay.....	83
Table 13: Repellency of EOs of <i>Artemisia annua</i> extracted with n-hexane against <i>Tribolium castaneum</i> adults using Multi arm olfactometer bioassay..	84
Table 14: Contact toxicity of methanol EOs of <i>A. annua</i> applied topically to <i>T. castaneum</i> at 30°C and 70±80% RH.....	86
Table 15: Contact toxicity of chloroform derived EOs of <i>A. annua</i> applied topically to <i>T. castaneum</i> at 30°C and 70±80% RH.	86

Table 16: Contact toxicity of petroleum ether derived EOs of <i>A. annua</i> applied topically to <i>T. castaneum</i> at 30°C and 70±80% RH.	87
Table 17: Contact toxicity of n-hexane derived EOs of <i>A. annua</i> applied topically to <i>T. castaneum</i> at 30°C and 70±80% RH.	87
Table 18: Fumigant toxicity of methanol derived EOs of <i>A. annua</i> to <i>T. castaneum</i> exposed for 24 h at 30°C and 70±80% RH.	100
Table 19: Fumigant toxicity of chloroform derived EOs of <i>A. annua</i> to <i>T. castaneum</i> exposed for 24 h at 30°C and 70±80% RH.	100
Table 20: Fumigant toxicity of petroleum ether derived EOs of <i>A. annua</i> to <i>T. castaneum</i> exposed for 24 h at 30°C and 70±80% RH.	101
Table 21: Fumigant toxicity of n-hexane derived EOs of <i>A. annua</i> to <i>T. castaneum</i> exposed for 24 h at 30°C and 70±80% RH.	101
Table 22: Effect of methanol derived EOs of <i>A. annua</i> on protein and enzymatic profile of <i>T. castaneum</i> subjected to contact toxicity bioassays...	105
Table 23: Effect of chloroform derived EOs of <i>A. annua</i> on protein and enzymatic profile of <i>T. castaneum</i> subjected to contact toxicity bioassays...	106
Table 24: Effect of petroleum ether derived EOs of <i>A. annua</i> on protein and enzymatic profile of <i>T. castaneum</i> subjected to contact toxicity bioassays...	107
Table 25: Effect of n-hexane derived EOs of <i>A. annua</i> on protein and enzymatic profile of <i>T. castaneum</i> subjected to contact toxicity bioassays...	108
Table 26: Effect of methanol derived EOs of <i>A. annua</i> on protein and enzymatic profile of <i>T. castaneum</i> subjected to fumigant toxicity bioassay.	112
Table 27: Effect of chloroform derived EOs of <i>A. annua</i> on protein and enzymatic profile of <i>T. castaneum</i> subjected to fumigant toxicity bioassay.	113
Table 28: Effect of petroleum ether derived EOs of <i>A. annua</i> on protein and enzymatic profile of <i>T. castaneum</i> subjected to fumigant toxicity bioassay.	114
Table 29: Effect of n-hexane derived EOs of <i>A. annua</i> on protein and enzymatic profile of <i>T. castaneum</i> subjected to fumigant toxicity bioassay.	115
Table 30: Effect of <i>Artemisia annua</i> on the feeding ratio and % weight loss caused by <i>Tribolium castaneum</i>	116
Table 31: Nutritional and feeding deterrence indices of adult of <i>Tribolium castaneum</i> exposed to flour discs treated with the methanolic EOs of <i>Artemisia annua</i>	130

Table 32: Nutritional and feeding deterrence indices of adult of <i>Tribolium castaneum</i> exposed to flour discs treated with the chloroform EOs of <i>Artemisia annua</i>	131
Table 33: Nutritional and feeding deterrence indices of adult of <i>Tribolium castaneum</i> exposed to flour discs treated with the petroleum ether EOs of <i>Artemisia annua</i>	132
Table 34: Nutritional and feeding deterrence indices of adult of <i>Tribolium castaneum</i> exposed to flour discs treated with the n-hexane EOs of <i>Artemisia annua</i>	133