

6- Statistical analysis of sensitive and resistance pathogenic isolates against different antibiotics -----	66
7- Minimum inhibitory concentration (MIC) and minimum bactericidal concentrations (MBC) of some antibiotics -----	69
8- The effect of different plant extracts (water and alcohol extract) on <i>E. coli</i> -----	72
9- The effect of different plant extracts (water, alcohol) on <i>K. aerogenes</i> -----	77
10- The effect of different plant extracts (water, alcohol) against both isolates of <i>P. aeruginosa</i> (isolate no. 12 & 30) -----	82
11- The effect of different volatile oils (10 µl) against different isolates of <i>E. coli</i> , <i>K. aerogenes</i> , <i>P. aeruginosa</i> -----	87
12- The effect of different volatile oils (20 µl) against pathogenic bacterial isolates -----	92
13- The effect of different volatile oils (30 µl) on microorganisms --	97
<b>DISCUSSION</b> -----	102
<b>SUMMARY</b> -----	113
<b>REFERENCES</b> -----	117
<b>ARABIC SUMMARY</b> -----	

11	Diameter of inhibition zone (mm) of different plant extract (water and alcohol) on <i>K. aerogenes</i> (isolate 8, 50) and after treatment -----	78
12	Sensitivity of <i>K. aerogenese</i> to water and alcoholic plant extracts (diluted and concentrated). -----	81
13	Diameter of inhibition zone (mm) of different plant extract (water and alcohol) on <i>P. aeruginosae</i> (isolate number 12, 30). -----	83
14	Sensitivity of <i>P. aeruginosae</i> to water and alcoholic plant extracts (diluted and concentrated). -----	86
15	Diameter of inhibition zone (mm) of different volatile oils (10 $\mu$ l) against pathogenic bacterial isolates -----	88
16	Diameter of inhibition zone (mm) of different volatile oils (20 $\mu$ l) against different isolates of <i>E. coli</i> , <i>K. aerogenes</i> and <i>P. aeruginosae</i> . -----	93
17	Diameter of inhibition zone (mm) of different volatile oils (30 $\mu$ l) against different isolates of <i>E. coli</i> , <i>K. aerogenes</i> and <i>P. aeruginosae</i> . -----	98

## LIST OF FIGURES

No.	Page
1 Diabetic urine sample collected from different ages of male and female (positive samples contaminated with <i>E. coli</i> or <i>K. aerogenes</i> , <i>P. aeruginosae</i> ). -----	52
2 The distribution number of pathogenic bacterial isolate from positive collected samples-----	59
3 Sensitivity test of pathogenic isolates against different antibiotics-----	65
4 Minimum inhibitory concentration (MICs) ( $\mu\text{g/ml}$ ) and minimum bacterial concentration (MBCs) of different antibiotics-----	71
5 Diameter of inhibition zone (mm) of different plant extract (water and alcohol) on <i>E. coli</i> (isolate number 36).-----	74
6 Diameter of inhibition zone (mm) of different plant extract (water and alcohol) on <i>E. coli</i> (isolate number 47).-----	75
7 Diameter of inhibition zone (mm) of different plant extract (water and alcohol) on <i>K. aerogenes</i> (isolate 8). -----	79
8 Diameter of inhibition zone (mm) of different plant extract (water and alcohol) on <i>K. aerogenes</i> (isolate 50).-----	80
9 Diameter of inhibition zone (mm) of different plant extract (water and alcohol) on <i>P. aeruginosae</i> (isolate number 12).-----	84

10	Diameter of inhibition zone (mm) of different plant extract (water and alcohol) on <i>P. aeruginosa</i> (isolate number 30). -----	85
11	Diameter of inhibition zone (mm) of different volatile oils (10 $\mu$ l) against <i>E.coli</i> isolates -----	89
12	Diameter of inhibition zone (mm) of different volatile oils (10 $\mu$ l) against <i>P. aeruginosa</i> isolates. -----	90
13	Diameter of inhibition zone (mm) of different volatile oils (10 $\mu$ l) against <i>K. aerogenes</i> isolates -----	91
14	Diameter of inhibition zone (mm) of different volatile oils (20 $\mu$ l) against isolate of <i>E. coli</i> . -----	94
15	Diameter of inhibition zone (mm) of different volatile oils (20 $\mu$ l) against isolate of <i>P. aeruginosa</i> -----	95
16	Diameter of inhibition zone (mm) of different volatile oils (20 $\mu$ l) against isolate of <i>K. aerogenes</i> -----	96
17	Diameter of inhibition zone (mm) of different volatile oils (30 $\mu$ l) against isolate of <i>E. coli</i> . -----	99
18	Diameter of inhibition zone (mm) of different volatile oils (30 $\mu$ l) against isolate of <i>P. aeruginosa</i> -----	100
19	Diameter of inhibition zone (mm) of different volatile oils (30 $\mu$ l) against isolate of <i>K. aerogenes</i> -----	101