

CHEMICAL COMPOSITION AND ANTIMICROBIAL ACTIVITY OF *MARRUBIUM DESERTI* DE NOÉ ESSENTIAL OIL

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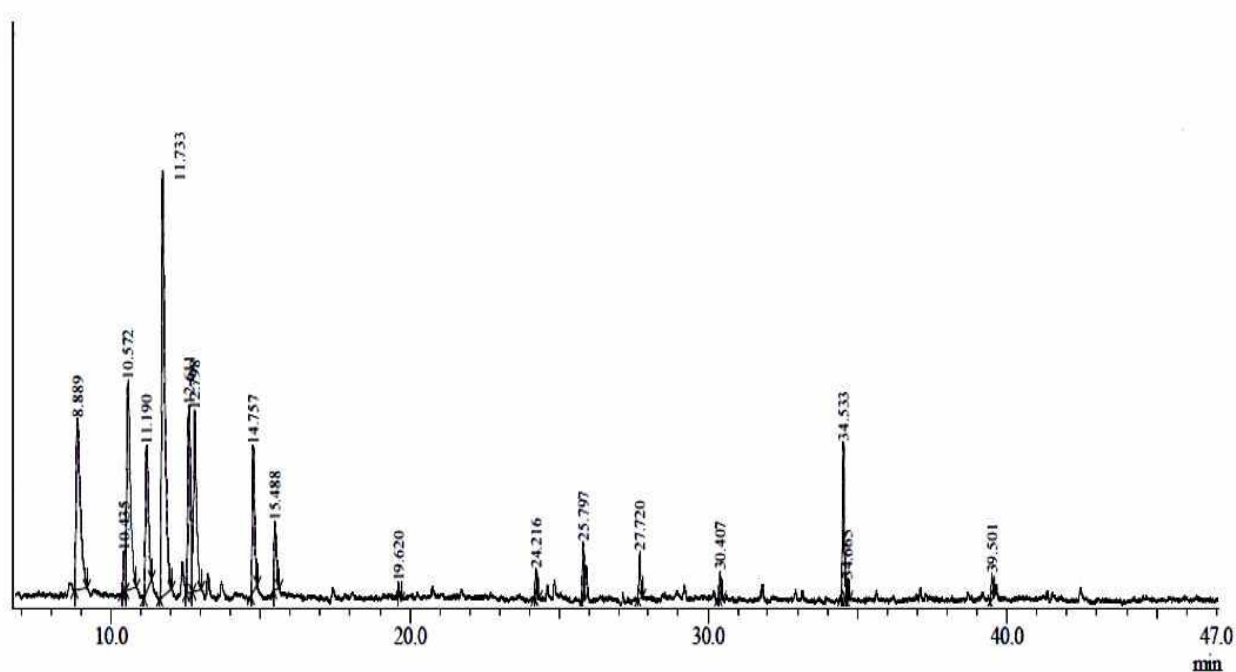


Figure S1. Chromatographic profile of *Marrubium deserti* essential oil.

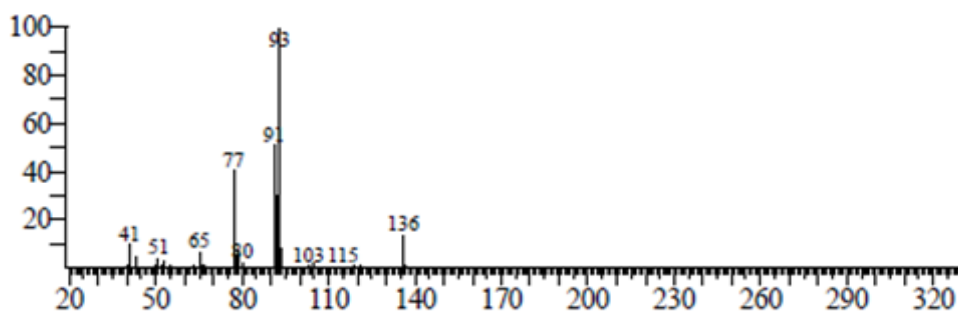


Figure S2. Mass spectrum of α -phellandrene.

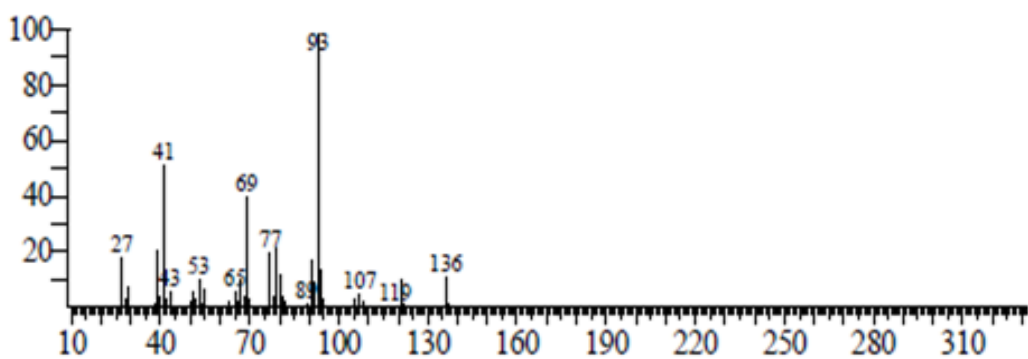


Figure S3. Mass spectrum of β -pinene.

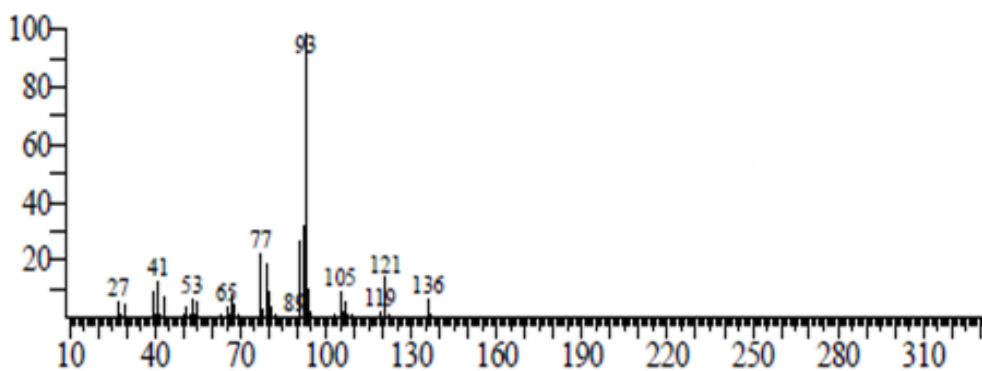


Figure S4. Mass spectrum of α -pinene.

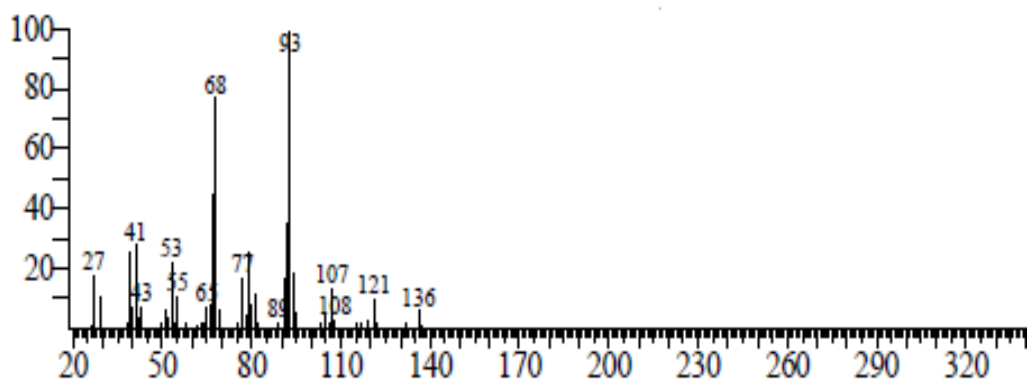


Figure S5. Mass spectrum of limonene.

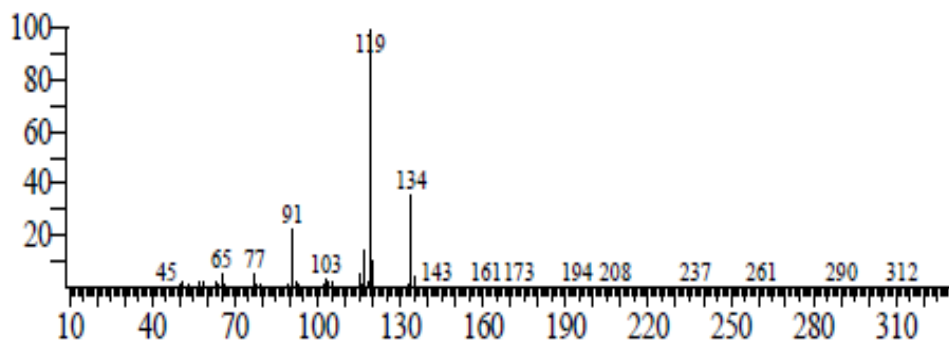


Figure S6. Mass spectrum of *o*-cymene.

Table S1

Inhibition zones diameter of <i>Marrubium deserti</i> EO.				
Bacteria strains	Inhibition zone diameter (mm)			
	Essential oil			CAZ
	1.5 μ L	3 μ L	6 μ L	30 μ g
<i>E.faecalis</i>	13.67 \pm 0.44	18.67 \pm 0.89	22.00 \pm 1.33	6.00 \pm 0.00
<i>B.cereus</i>	12.33 \pm 0.89	14.67 \pm 0.89	17.33 \pm 1.78	6.00 \pm 0.00
<i>B.subtilis</i>	12.00 \pm 0.67	14.33 \pm 0.67	15.33 \pm 1.11	6.00 \pm 0.00
<i>S.typhimurium</i>	6.00 \pm 0.00	6.00 \pm 0.00	7.00 \pm 0.00	6.00 \pm 0.00
<i>P.aeruginosa</i>	8.67 \pm 0.44	10.00 \pm 0.00	12.33 \pm 0.44	6.00 \pm 0.00

CAZ:Ceftazidime

Table S2

MIC and MBC values of <i>Marrubium deserti</i> EO.			
Bacteria strains	MIC (v/v)	MBC (v/v)	R
<i>E.faecalis</i>	0.0022	0.0022	1
<i>B.cereus</i>	0.003	0.006	2
<i>B.subtilis</i>	0.003	0.006	2
<i>S.typhimurium</i>	0.014	0.014	1
<i>P.aeruginosa</i>	0.01	0.01	1

R = MBC/MIC

Table S3

Antifungal activity of <i>Marrubium deserti</i> EO.				
		<i>F.oxysporum f.sp. albedinis</i>	<i>P. expansum</i>	<i>A.flavus</i>
Control	a	0	0	0
	b	0	0	0
	c	0	0	0
1/7000 (v/v)	a	81.31±0.88	5.73±0.49	3.69 ±0.32
	b	84.36±0.39	16.51±0.40	37.81±0.51
	c	88.22±0.73	72.09±0.87	68.61±0.6
1/2000 (v/v)	a	92.55±0.57	26.79±0.33	15.71±0.28
	b	90.82±0.38	29.64±0.40	48.45±0.30
	c	93.59±0.48	80.63±0.64	88.02±0.40
1/500 (v/v)	a	100±0.00	35.26±0.41	51.20±0.74
	b	100±0.00	37.33±0.38	73.66±0.37
	c	100±0.00	72.24±0.36	95.55±0.28
1/300 (v/v)	a	100±0.00(f)	67.63±0.42	73.24±0.43
	b	100±0.00	50.32±0.21	96.51±0.20
	c	100±0.00	100±0.00	98.46±0.22
1/150 (v/v)	a	100±0.00	100±0.00 (f)	100±0.00 (f)
	b	100±0.00	100±0.00	100±0.00
	c	100±0.00	100±0.00	100±0.00
1/100 (v/v)	a	100±0.00	100±0.00	100±0.00
	b	100±0.00	100±0.00	100±0.00
	c	100±0.00	100±0.00	100±0.00
MIC (v/v)	1/800	1/200	1/200	

a, radial growth (%) ; b, sporulation (%) ; c, germination(%) ; f, fungicidal effect