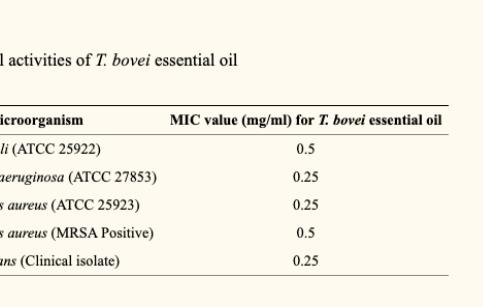
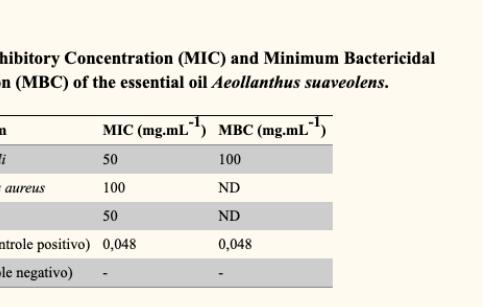
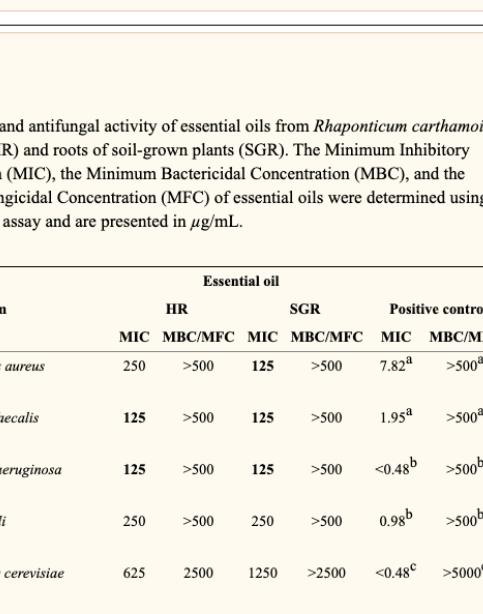
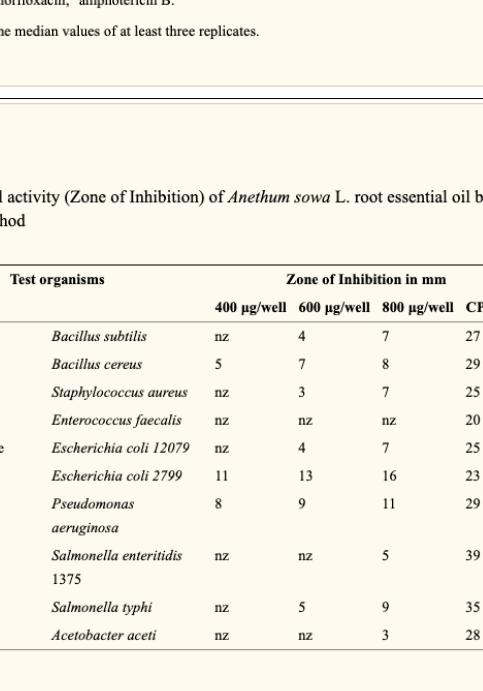
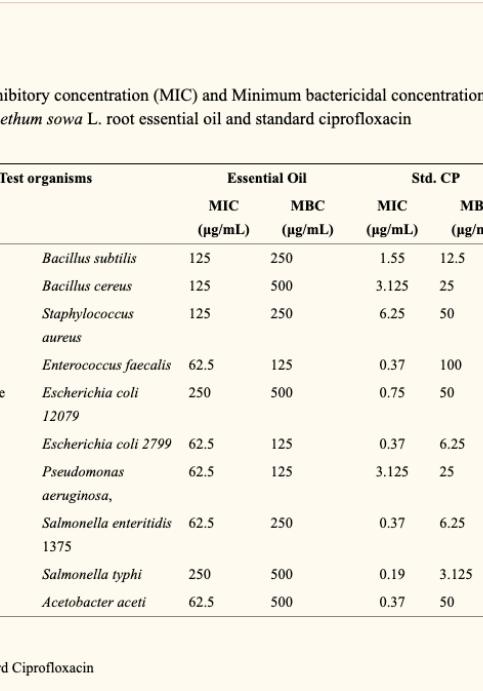
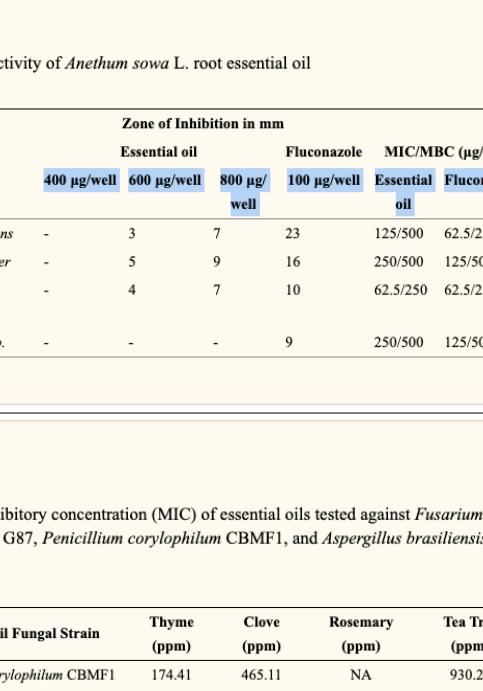
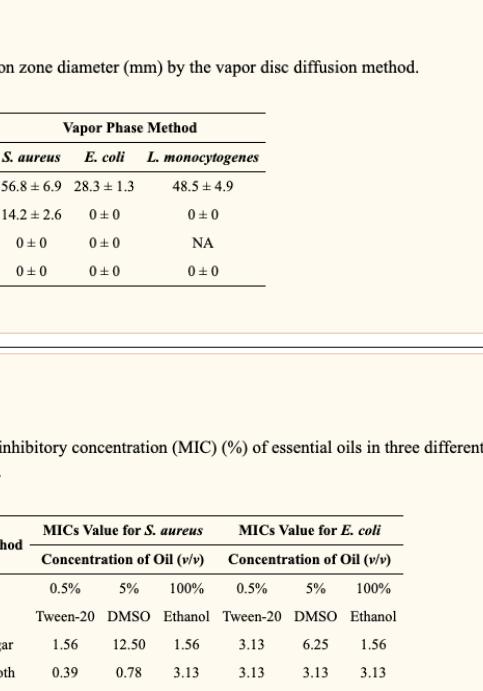
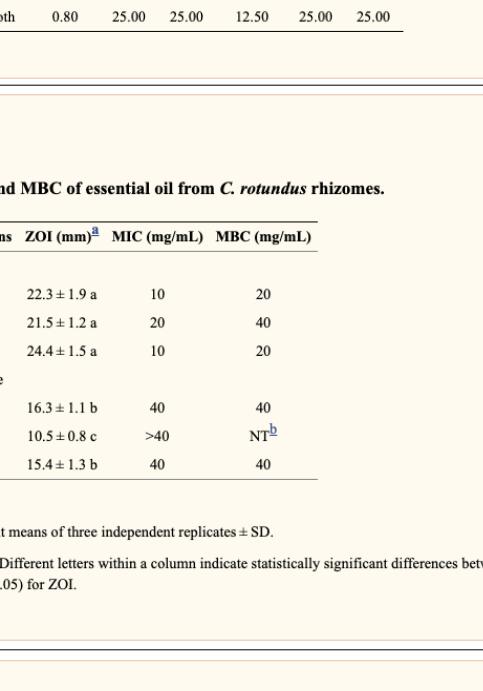
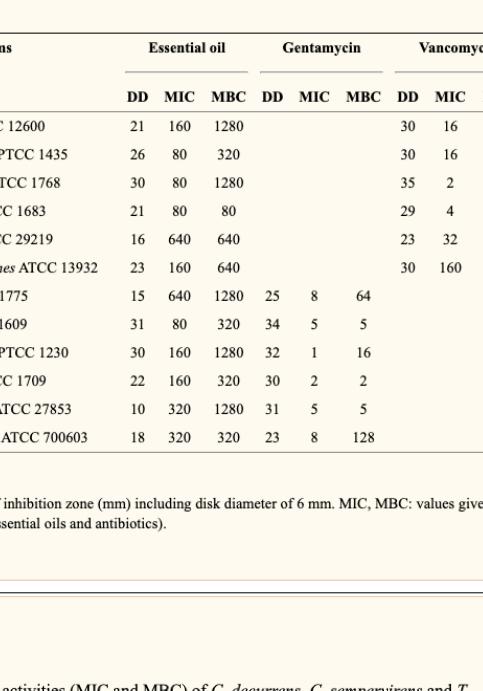
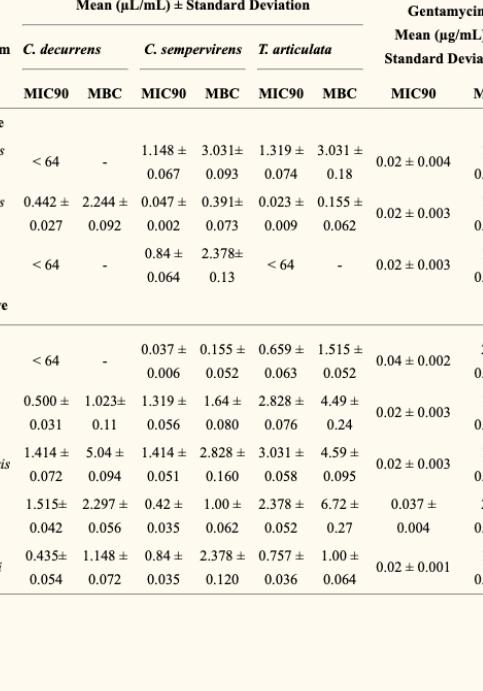


Table 1

Article	Table type	Table Image	paragraphs just before the table (with title, if any)	Table_Caption	Keywords_Phrases	Table_Footnote_KEY_Abbreviations	Measurements	Measurement Unit	Method	Plant Material	Targets	Non-Plant Control Substances, Solvents, Media, Substrate	Notes	Table Type	Col1	Col2	Col3	Col4	Col5	Col6				
PMC5080681	Antimicrobial		Antibacterial and antifungal activities The essential oil of <i>T. bovis</i> extracted by microwave-ultrasonic method used in this study exhibited potential biocactivity against the growth of all microbes examined in this study. With all of the studied pathogens, the highest antimicrobial activity was observed against <i>E. coli</i> , followed by <i>P. aeruginosa</i> against <i>S. aureus</i> and <i>Candida albicans</i> with MIC value of 0.25 mg/ml, while the MIC for <i>Escherichia coli</i> and <i>Candida albicans</i> was 0.5 mg/ml as shown in Table 4.	Antimicrobial activities of <i>T. bovis</i> essential oil	[ACTIVITY(S)] activities of [PLANT(S)] [EXTRACT(S)]		MIC value	(mg/ml)							Microorganism	MIC value (mg/ml) for <i>T. bovis</i> essential oil								
PMC5132230	antibacterial, MBC		Microbiological activity of the essential Aeolanthus suaveolens oil The discovery of new natural products with antibiotic potential is of considerable interest due to the growing resistance of many bacteria to antibiotics currently used in the treatment of infections [33]. Table 4 illustrates the biocidal activity of essential oil from <i>A. suaveolens</i> . The results showed that gram-negative bacteria <i>Escherichia coli</i> and <i>Salmonella enterica</i> were more susceptible to the essential oil from <i>A. suaveolens</i> , with MIC 30 mg/ml & MBC 100 mg/ml·1. With respect to gram-positive bacteria <i>Staphylococcus aureus</i> and <i>Candida albicans</i> , the OE concentration equivalent to 100 mg <i>A. suaveolens</i> mg·ml ⁻¹ was sufficient to inhibit the growth of <i>E. coli</i> .	Minimum Inhibitory Concentration (MIC) and Minimum Bactericidal Concentration (MBC) of the essential oil <i>Aeolanthus suaveolens</i> .	[MEASUREMENT(S)] of the [EXTRACT(S)] [PLANT(S)].	ND: Not Detected	Minimum Inhibitory Concentration (MIC) and Minimum Bactericidal Concentration (MBC)	mg·ml ⁻¹							Microorganism	MIC (mg.ml ⁻¹)	MBC (mg.ml ⁻¹)							
PMC5203915	antiMicrobial		Table 4: The Higher Antibacterial Activity of <i>R. carthamoides</i> HR and SGR Essential Oils Against Gram-Positive and Gram-Negative Bacteria Than against Yeasts In this study, the Minimum Inhibitory Concentration (MIC), the Minimum Bactericidal Concentration (MBC), and the Minimum Fungicidal Concentration (MFC) of HR and SGR essential oils were investigated against the Gram-positive bacteria, Gram-negative bacteria, and yeasts. It was found that both essential oils had higher antibacterial activity than their respective standard antibiotics (MIC = 125–250 µg/ml) than antimicrobial activity (MIC = 625–1250 µg/ml) (Table 2). The highest antibacterial activity with a MIC value of 125µg/ml was observed for the <i>R. carthamoides</i> Paeonia <i>lanceolata</i> and <i>R. carthamoides</i> <i>HR</i> against <i>Escherichia coli</i> . No significant difference in susceptibility was found between Gram-positive bacteria and Gram-negative bacteria (Table 2). In order to address the bacteriostatic and bactericidal properties of the samples, the MIC values were also evaluated. The MBC values are no more than four times the MIC values observed (Table 2).	Antibacterial and antifungal activity of essential oils from <i>Rhamnus carthamoides</i> hairy roots and yeasts of soil-grown plants (SGR).	[ACTIVITY(S)] activity of [EXTRACT(S)] [PLANT(S)] [PART(S)] of [GROWTH MEDIUM?]	aVancomycin: bnorfloxacin; campoth Vin D. The [MEASUREMENT(S)] of the essential oils were determined using the [METHOD(S)] and are presented in [UNIT(S)].										Microorganism	Essential oil	Positive control						
PMC5324201	Antibacterial, ZOI		Table 13: Anti-bacterial activity (Zone of Inhibition) of <i>Acanthum sowa</i> L. root essential oil by diffusion method The results of antimicrobial activity of <i>Acanthum sowa</i> L. essential oils are shown in Tables 13.																					
PMC5324201	antibiotic, MBC		Table 14: Minimum inhibitory concentration (MIC) and Minimum bacterial concentration (MBC) of <i>Acanthum sowa</i> L. root essential oil and standard ciprofloxacin The results of antimicrobial activity of <i>Acanthum sowa</i> L. root essential oil and standard ciprofloxacin	Minimum inhibitory concentration (MIC) and Minimum bacterial concentration (MBC) of <i>Acanthum sowa</i> L. root essential oil and standard ciprofloxacin	[MEASUREMENT(S)] of [PLANT(S)] [PART(S)] [EXTRACT(S)] and standard [CONTROL SUBSTANCE]	Std. CP Standard Ciprofloxacin	MIC MBC	(µg/mL)							CP Standard Ciprofloxacin (5 µg/disc) TE Standard Tetracycline (30 µg/disc)	Test organisms	Zone of inhibition in mm							
PMC5324201	AntFung al ZOI		Table 15: Anti-fungal activity of <i>Acanthum sowa</i> L. root essential oil The anti-fungal activity of the essential oil is shown in Table 15. The highest zone of inhibition was shown against <i>A. niger</i> at 800 µg/disc but there was no observable zone of inhibition was found in <i>T. foenum</i> . On the other hand, no zone was observed at 400 µg/disc dose level. The standard dose example is highly sensitive to the fungi at the dose of 100 µg/disc. In the MBC and MBCs experiments, the essential oil showed the highest inhibition i.e. the lowest MICs and MBCs. In the case of fluconazole, it completely inhibited the entire test fungi.	Anti-fungal activity of <i>Acanthum sowa</i> L. root essential oil	[ACTIVITY(S)] activity of [PLANT(S)] [PART(S)] [EXTRACT(S)]										Note that the results in the last two columns contain two measurements separated with a “+” sign. MIC/MBC (µg/ml)									
PMC5344628	Antibacterial, MBC		Table 4: Minimum inhibitory concentration (MIC) of essential oils tested against <i>Fusarium graminearum</i> GBT, <i>Penicillium cyclopis</i> CBMF1, and <i>Aspergillus brasiliensis</i> ATCC 16404. The minimum inhibitory concentrations of the tested essential oils (EOs of thyme, clove, rosemary, and tea tree oil) are presented in Table 4. The data presented in Table 4 shows that, from all the essential oils tested in this study, rosemary oil did not show desirable results against the selected pathogenic fungi.	Minimum inhibitory concentration (MIC) of essential oils tested against <i>Fusarium graminearum</i> GBT, <i>P. cyclopis</i> CBMF1, and <i>A. brasiliensis</i> ATCC 16404.	[MEASUREMENT(S)] of [EXTRACT(S)] tested against [TARGET(S)]	NA—not applicable.	Minimum inhibitory concentration (MIC)	(ppm)							The header on this table is incorrect. We believe “Essential Oil” should be placed above the columns for each EO result.	Fungi	Zone of inhibition in mm	MIC/MBC (µg/ml)						
PMC5344628	antiBacterial, DD		Table 5: Mean inhibition zone diameter (mm) by the vapor disc diffusion method. Thyme oil had the highest inhibition zones for the three test strains, followed by tea tree oil, and then by clove oil. Rosemary was the least active.	Mean inhibition zone diameter (mm) by the vapor disc diffusion method	[MEASUREMENT(S)] [UNIT(S)] by [METHOD(S)]										Find international spellings: Eg: Vapor/vapour									
PMC5344628	antiBacterial, MBC		Table 6: The minimal inhibitory concentration (MIC) (%) of essential oils in three different solvents (v/v). The minimal inhibitory concentration of an antimicrobial agent is the lowest (i.e., minimal) concentration of the antimicrobial agent that inhibits a given bacterium or mold at a specific time period [49]. This system was determined by incubating a known quantity of bacteria with specified dilutions of the antimicrobial agent. Using a similar broth dilution method, Zhang et al. [50] found that MIC 1.0 µg/ml, or a concentration of 5% is associated to 60% inhibition of <i>E. coli</i> . The MIC and MBC values of the essential oils were found within the range of 46.11–135.04 µg/ml.	The minimal inhibitory concentration (MIC) of essential oils in three different solvents (v/v).	[MEASUREMENT(S)] [UNIT(S)] of [EXTRACT(S)] in three different [SOLVENT(S)] [SOLVENT UNIT]	tea tree essential oil (TTO)	The minimal inhibitory concentration (MIC) (%) of essential oils in three different solvents (v/v).	(MIC) (%) solvents (v/v)																
PMC5364420	Antibacterial, MBC, ZOI		Table 3: ZOI, MIC, and MBC of essential oil from <i>C. rotundus</i> rhizomes. The ZOI, MIC, and MBC values of the essential oil from <i>C. rotundus</i> rhizomes are presented in Table 3. The results showed that the essential oil had a satisfactory antibacterial effect on all of the Gram-positive and Gram-negative bacteria. The ZOI values of the essential oil ranged in the range of 10.5–24.4 mm for all tested bacterial strains, respectively. The MIC and MBC values for tested bacterial strains were in the range of 10–40 µg/ml and 20–40 µg/ml, respectively. The MIC and MBC values of the essential oil from <i>C. rotundus</i> rhizomes for <i>E. coli</i> had not been gained when the concentration of essential oil reached the maximum in method system test. Of these bacteria, the essential oil from <i>C. rotundus</i> rhizomes had the best antibacterial effect on <i>S. agavei</i> and <i>S. aureus</i> and <i>B. subtilis</i> , which indicated it was the most effective bactericidal inhibitor and bactericide against <i>B. subtilis</i> . On the whole, the essential oil from <i>C. rotundus</i> rhizomes had a strong antibacterial effect on <i>S. agavei</i> and <i>S. aureus</i> and <i>B. subtilis</i> . The results were consistent with previous studies on antibacterial activity of <i>C. rotundus</i> essential oil [73], which was found to have inhibitory zones in the outer layers of Gram-positive and Gram-negative bacteria. Resistance of <i>S. agavei</i> to <i>C. rotundus</i> rhizomes is attributed to the presence of a hydrophilic outer membrane which possesses hydrophilic polysaccharide chain as a barrier hydrophobic essential oil[35,36].	ZOI, MIC and MBC of the essential oil from <i>C. rotundus</i> rhizomes.	[MEASUREMENT(S)] of [EXTRACT(S)] from [PLANT(S)] [PART(S)].		aValues represent means of three independent replicates±SD. bN.T. not tested. Different letters in the same column indicate statistically significant differences between the means (p<0.05) for ZOI.	ZOI MIC MBC	ZOI (mm) MIC (mg/mL) MBC (mg/mL)	rhizomes	Bacteria								Bacterial strains	ZOI (mm)a	MIC (mg/mL)	MBC (mg/mL)		
PMC5412227	antibacterial, MBC, DC		Table 3: Antimicrobial activity of <i>D. kotschy</i> essential oils. The antimicrobial activities of <i>D. kotschy</i> essential oils against a panel of twelve bacteria strains was studied by agar disk diffusion and broth microdilution susceptibility assays. Bacteria selection was made based on their relevance to food contaminants. The activity was quantitatively and quantitatively determined by the diameter of the inhibition zones (DD), minimum inhibitory concentrations (MICs) and minimum bactericidal concentrations (MBCs), as shown in Table 3.	Antimicrobial activity of <i>D. kotschy</i> essential oils.	[ACTIVITY(S)] activity of [PLANT(S)] [EXTRACT(S)]		DD: diameter of inhibition zone (mm) including disk diameter of 6 mm. MIC, MBC: values given as µg/ml for the essential oils and antibiotics.	DD: diameter of inhibition zone (mm) MIC, MBC: values given as µg/ml for the essential oils and antibiotics.	DD: diameter of inhibition zone (mm) MIC, MBC: values given as µg/ml for the essential oils and antibiotics.							Gentamycin Vancomycin	Microorganisms	DD	MIC	MBC				
PMC542358	antibacterial, MBC, DC		Table 4: Antibacterial activities (MIC and MBC) of <i>C. decurrens</i>, <i>C. sempervirens</i> and <i>T. articulata</i> essential oils. The antibacterial activities of <i>C. decurrens</i> , <i>C. sempervirens</i> and <i>T. articulata</i> essential oils against the tested Gram-positive and Gram-negative bacteria are shown in Table 4. The essential oil total inhibition limited by the disk diffusion method was expressed as the MICs and MBCs of the essential oils. The MICs and MBCs of the tested microorganisms ranged from 0.023 to 0.42 µg/ml. Essential oil of <i>C. sempervirens</i> showed inhibition of the growth of <i>S. pyogenes</i> at concentration 0.84 µg/ml, whereas essential oils of <i>C. decurrens</i> and <i>T. articulata</i> showed inhibition of the growth of <i>S. pyogenes</i> at concentration 0.023 µg/ml. <i>E. coli</i> showed no susceptibility to essential oil of <i>C. decurrens</i> , while all the tested Gram-negative microorganisms showed growth inhibition at the MICs and MBCs of the tested essential oils. <i>C. sempervirens</i> showed the highest antibacterial activities against most of the tested bacterial strains.	Antibacterial activities (MIC and MBC) of <i>C. decurrens</i> , <i>C. sempervirens</i> and <i>T. articulata</i> essential oils.	[ACTIVITY(S)] activity of [PLANT(S)] [EXTRACT(S)]	-Not done											Microorganism	MIC90		MBC				

Article	Table type	Table Image	paragraphs just before the table (with title, if any)	Table_Caption	Keywords_Phrases	Table_Footnote KEY_Abbreviation s	Measurements	Measurement Unit	Method	Plant Material	Targets	Non-Plant Substances, Solvents, Media, Substrate	Notes	Table Type	Col1	Col2	Col3	Col4	Col5	Col6		
PMC5423256		Table 5 Antifungal activities (MIC and MFC) of <i>C. decurrens</i> , <i>C. semperfervens</i> and <i>T. articulata</i> essential oils	The antifungal activities of the essential oils of <i>C. decurrens</i> , <i>C. semperfervens</i> and <i>T. articulata</i> against tested yeast strains are shown in Table 5. Essential oil of <i>C. decurrens</i> showed no activities against all yeast strains. Essential oil of <i>C. semperfervens</i> showed no activity at concentrations up to 128 µg/mL. <i>C. glabrata</i> and <i>C. krusei</i> showed no susceptibility to any of the studied essential oils, while essential oils of <i>C. semperfervens</i> and <i>T. articulata</i> showed some antifungal activities against <i>C. krusei</i> at concentrations range 0.42–0.75 µg/mL. The tested essential oils showed MFC against the susceptible <i>Candida</i> species ranging from 1.148 µL/mL to 2.828 µL/mL. <i>C. semperfervens</i> essential oil showed the highest fungicidal activities followed by <i>T. articulata</i> and <i>C. decurrens</i> .	Mean (μ g/mL) \pm Standard Deviation <i>C. decurrens</i> <i>C. semperfervens</i> <i>T. articulata</i> MIC μ g/mL MFC μ L/mL MIC μ g/mL MFC μ L/mL MIC μ g/mL MFC μ L/mL	Antifungal activities (MIC and MFC) of <i>C. decurrens</i> , <i>C. semperfervens</i> and <i>T. articulata</i> essential oils	[ACTIVITY(S)] of [PLANT(S)] [EXTRACT(S)]	-Not done	MIC MBC	Mean (μ g/mL) \pm Standard Deviation						Microorganism	MIC90	MBC					
		-Not done																				
PMC5454990		Table 3 Antimicrobial and cytotoxic activities of <i>Ocotea</i> essential oils and some major essential oil components. MIC, minimum inhibitory concentration; IC ₅₀ , median inhibitory concentration	2.2. Antimicrobial and Cytotoxic Activities All essential oils displayed high antimicrobial activity against <i>E. coli</i> (minimum inhibitory concentration (MIC) = 19.5 µg/mL), <i>C. auris</i> and <i>C. albicans</i> (MIC = 32 µg/mL). <i>Ocotea</i> essential oils also displayed notable cytotoxicity against <i>P. aeruginosa</i> (Table 3). It is not obvious what components are responsible for the activity against <i>E. coli</i> . Most essential oil components show only marginal activity against this organism. The observed cytotoxicity may be associated mainly with the activities of the individual oil components (Table 3). On the other hand, the cytotoxic activity against <i>MCF-7</i> cells did not display variation in the median inhibitory concentration values among the samples with an average of 63.0 µg/mL (Table 3). The major components of the essential oils are bicyclogermacrene, β-caryophyllene, α-phene, β-pinene, carophyllene oxide, β-selinene, 7-epi-β-selinene have been reported as antimicrobial and cytotoxic [33]. The observed cytotoxicities of some of the essential oil components are consistent with the cytotoxicities of the essential oils themselves (Table 3).	Material P. E. C. C. P. P. P. G. G. T. T.	Antimicrobial and cytotoxic activities of <i>Ocotea</i> essential oils and some major essential oil components. MIC, minimum inhibitory concentration; IC ₅₀ , median inhibitory concentration	[ACTIVITY(S)] of [PLANT(S)] [EXTRACT(S)] [COMPONENT(S)]	<i>P. aeruginosa</i> (Pseudomonas aeruginosa), <i>E. coli</i> (Escherichia coli), <i>S. epidermidis</i> (Staphylococcus epidermidis), <i>S. aureus</i> (Staphylococcus aureus), <i>B. cereus</i> (Bacillus cereus).	MIC (μ g/mL) IC ₅₀ (μ g/mL)	μ g/mL							Material	MIC (μ g/mL)	IC ₅₀ (μ g/mL)				
		<i>P. aeruginosa</i> (Pseudomonas aeruginosa), <i>E. coli</i> (Escherichia coli), <i>S. epidermidis</i> (Staphylococcus epidermidis), <i>S. aureus</i> (Staphylococcus aureus), <i>B. cereus</i> (Bacillus cereus).																				
PMC5485486	antiBact erial_DD	Table 3 Inhibition zone diameters (mm) of <i>A. citrodon</i> essential oils on bacterial strains.	3.3. Antibacterial Assays 3.3.1. Disc Diffusion Assay Inhibition zone diameters of the disc diffusion assays were recorded in Table 3. The results indicate that <i>E. coli</i> ATCC 25922 and <i>S. aureus</i> ATCC 25923 was sensitive to essential oils of <i>A. citrodon</i> , while <i>P. aeruginosa</i> ATCC 27393 was resistant.	Bacterial strains MIC μ g/mL MFC μ L/mL	Inhibition zone diameters (mm) of <i>A. citrodon</i> essential oils on bacterial strains .	[MEASUREMENT(S)] [UNIT(S)] of [PLANT(S)] [EXTRACT(S)] on [TARGET(S)]	+AG: Agadir. BM: Beni Mellal. BE: Berkane. DE: Demnate. MA: Marrakech.	Mean inhibition zone diameters (mm)	[x] essential oil(s) of [x] Contains ATCC Bacterium	Ceftriaxone Ciprofloxacin	Find single/ plural version of words: • diameter/ diameters			Bacterial strains	EO samples from different regions							
		*AG: Agadir. BM: Beni Mellal. BE: Berkane. DE: Demnate. MA: Marrakech.																				
PMC5485486	antiBact erial_MIC MBC	Table 4 Minimal inhibitory concentrations (MIC) and minimal bacterial concentrations (MIC) of <i>A. citrodon</i> essential oils	3.3.2. Determination of MIC and MBC The obtained values of MIC and MBC are shown in Table 4. The MIC on <i>E. coli</i> ranged from 2.84 to 3.73 mg/ml for MA and BM essential oils, respectively. <i>S. aureus</i> MICs were 3.51 mg/ml for BM and 3.87 mg/ml for DE essential oils.	Material MIC μ g/mL MBC μ L/mL	Minimal inhibitory concentrations (MIC) and minimal bacterial concentrations (MBC) of <i>A. citrodon</i> essential oils.	[MEASUREMENT(S)] [UNIT(S)] of [PLANT(S)] [EXTRACT(S)]	+AG: Agadir. BM: Beni Mellal. BE: Berkane. DE: Demnate. MA: Marrakech.	MIC MBC	mg/mL						EO samples from different regions	MIC	MBC					
		*AG: Agadir. BM: Beni Mellal. BE: Berkane. DE: Demnate. MA: Marrakech.																				
PMC5486035		Table 2 Minimal inhibitory concentrations (MICs) and minimal bacterial concentrations (MBCs) of HEO (expressed as mg/ml) against Gram-positive and Gram-negative bacteria.	2.4. Antimicrobial Activities The minimal inhibitory concentrations (MICs) and minimal bacterial concentrations (MBCs) of HEO (expressed as mg/ml) against the American Type Culture Collection (ATCC) strains are reported in Table 2. Results of negative controls indicated the complete absence of inhibition of all the strains tested (data not shown). A concentration of 7.11 mg/ml inhibited the growth of all the strains tested. The same concentration was found to be bactericidal against all strains. Several studies have demonstrated the antimicrobial properties of HEO against <i>Gram-positive</i> bacteria such as 4-caine, also identified amongst the main constituents of the Iranian Cymbopogon Olivier essential oil, has been implicated in the antimicrobial activity against <i>Gram-negative</i> bacteria, <i>Gram-negative</i> bacteria, and the yeast <i>Candida albicans</i> [33].	Bacterial Strain MIC μ g/mL MBC μ L/mL	Minimal inhibitory concentrations (MICs) and minimal bacterial concentrations (MBCs) of HEO (expressed as mg/ml) against Gram-positive and Gram-negative bacteria.	[MEASUREMENT(S)] [UNIT(S)] of [PLANT(S)] [EXTRACT(S)] expressed as [UNIT(S)] against [TARGET(S)]	HEO, hull essential oil; na, not active.	MIC MBC	mg/mL						Bacterial Strain	MIC	MBC					
		HEO, hull essential oil; na, not active.																				
PMC5497343	antiBact erial_MIC	Table 3 Minimum inhibitory concentrations (MIC) of essential oil of <i>T. minuta</i> flower	MIC of the essential oil of <i>T. minuta</i> flower The essential oil of <i>T. minuta</i> flower demonstrated good antibacterial activity against the test bacteria strains. The minimum inhibitory concentration (MIC) value of 0.06 mg/ml was obtained against <i>Vibrio</i> spp., <i>E. coli</i> , <i>E. cloacae</i> and <i>L. ivanovii</i> , while the MIC (0.125 mg/ml) for the EO against <i>S. aureus</i> , <i>M. smegmatis</i> and <i>S. uberis</i> was higher as shown in Table 3.	Bacteria Concentrations of essential oil (mg/ml) and MIC (mg/ml)	Minimal inhibitory concentrations (MIC) of essential oil of <i>T. minuta</i> flower	[MEASUREMENT(S)] of [EXTRACT(S)] of [PLANT(S)] [PART(S)]	Key: A = Essential oil, B = ciprofloxacin, + = Growth, - = no growth	[Plant Name] [Part]	Gram positive S. aureus L. ivanovii M. smegmatis S. uberis	Gram negative <i>E. cloacae</i> <i>Vibrio</i> spp.	This table has two columns (A, B) for each measurement heading (p.5, 0.25,...) It also sub-sets the targets by Gram Positive and Negative			Bacteria	0.5	0.3	0.1	0.1	0.0			
		Key: A = oil, B = ciprofloxacin, + = Growth, - = no growth																				
PMC5497343	antiBact erial_MB	Table 4 Minimum bacterial concentrations (MBC) of essential oil of <i>T. minuta</i> flower	MBC of the essential oil The essential oil of <i>T. minuta</i> flower displayed incredible antibacterial activities against Gram-negative bacteria test strains (<i>E. cloacae</i> , <i>Vibrio</i> spp. and <i>E. coli</i>) and Gram-positive bacteria (<i>S. uberis</i>) at varied concentrations as shown in Table 1.	Bacteria Concentrations of essential oil (mg/ml) and MBC (mg/ml)	Minimum bacterial concentrations (MBC) of essential oil of <i>T. minuta</i> flower	[MEASUREMENT(S)] of [EXTRACT(S)] of [PLANT NAME] [PART(S)]	Key: A = oil, B = ciprofloxacin, + = Growth, - = no growth	Minimum bacterial concentrations (MBC) Concentrations of (mg/ml) and MBC (mg/ml)	Titration	Bacteria	Ciprofloxacin	Concentrations of essential oil (mg/ml) (0.5 0.25 0.125 0.06 0.03)	Bacteria									
		Table 1 The minimum bacterial concentration of the EO and positive control are shown in Table 1. Table 2 d below.																				
PMC5527698		Images instead of tables																				
PMC5543433	antiBact erial_MIC	Table 2 Antibacterial activity of CIEO against foodborne, spoiling bacteria and determination of the Minimum Inhibitory Concentrations (MICs) expressed in mg/ml	Antimicrobial activities The antimicrobial activity of CIEO against foodborne, spoiling bacteria and <i>Gram-negative</i> bacteria was evaluated using the standard disk diffusion method. The MIC and MBC values of CIEO against the American Type Culture Collection (ATCC) strains are reported in Table 2. The MIC values of CIEO against <i>Gram-negative</i> bacteria were higher than those against <i>Gram-positive</i> bacteria. The antimicrobial activity was assessed by evaluating the inhibition zone (D) and the determination of MIC values. As can be seen in Table 2, CIEO showed varying degrees of antimicrobial activity against all strains tested. The inhibition zones were in the range of 13–28 mm. Among <i>Gram-positive</i> bacteria, the inhibition zones were higher than <i>Gram-negative</i> bacteria. The MIC values of CIEO against <i>Gram-negative</i> bacteria were higher than those against <i>Gram-positive</i> bacteria. The inhibition zones of CIEO against <i>Gram-negative</i> bacteria were higher than those against <i>Gram-positive</i> bacteria. The MIC values of CIEO against <i>Gram-negative</i> bacteria were higher than those against <i>Gram-positive</i> bacteria. The inhibition zones of CIEO against <i>Gram-negative</i> bacteria were higher than those against <i>Gram-positive</i> bacteria. The MIC values of CIEO against <i>Gram-negative</i> bacteria were higher than those against <i>Gram-positive</i> bacteria. The inhibition zones of CIEO against <i>Gram-negative</i> bacteria were higher than those against <i>Gram-positive</i> bacteria. The MIC values of CIEO against <i>Gram-negative</i> bacteria were higher than those against <i>Gram-positive</i> bacteria. 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Article	Table type	Table Image	paragraphs just before the table (with title, if any)	Table_Caption	Keywords_Phrases	Table_Footnote_KEY_Abbreviation_s	Measurements	Measurement Unit	Method	Plant Material	Targets	Non-Plant Substances, Solvents, Media, Substrate	Notes	Table Type	Col1	Col2	Col3	Col4	Col5	Col6																																																																																																																																																																																																																																																																													
PMCS77779		<table border="1"><thead><tr><th colspan="10">Table 2</th></tr><tr><th colspan="5">Minimum inhibitory (MIC) and bactericidal concentration (MBC) of the essential oil (mg/mL) of <i>Corymbia citriodora</i> leaves Hook and <i>C. macrocarpa</i> branches</th><th colspan="5">Antibacterial activity</th></tr><tr><th>Bacterial strain</th><th><i>Corymbia citriodora</i></th><th><i>Corymbia citriodora</i></th><th><i>Corymbia macrocarpa</i></th><th><i>Corymbia macrocarpa</i></th><th>MIC</th><th>MIC</th><th>MIC</th><th>MIC</th><th>MBC</th><th>MIC</th><th>MIC</th><th>MBC</th></tr></thead><tbody><tr><td><i>Escherichia coli</i></td><td>0.10^a</td><td>0.10^a</td><td>0.10^a</td><td>0.10^a</td><td>0.23 ± 0.05^a</td><td>0.23 ± 0.05^a</td><td>0.40 ± 0.05^a</td><td>0.40 ± 0.05^a</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td><i>Staphylococcus aureus</i></td><td>0.10^a</td><td>0.10^a</td><td>0.10^a</td><td>0.10^a</td><td>0.23 ± 0.12^a</td><td>0.27 ± 0.12^a</td><td>0.40 ± 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^b	—	—	—	<i>Deoxyrib. solen</i>	0.10 ^a	0.10 ^a	0.21 ± 0.10 ^a	0.38 ± 0.08 ^a	0.40 ± 0.02 ^a	0.19 ^b	—	—	—	<i>Escherichia coli</i>	0.05 ^a	0.05 ^a	0.05 ^a	0.05 ^a	0.12 ± 0.05 ^a	0.12 ± 0.05 ^a	0.23 ± 0.05 ^a	0.23 ± 0.05 ^a	—	—	—	—	<i>Pseudomonas aeruginosa</i>	0.17 ^a	0.17 ^a	0.17 ^a	0.17 ^a	0.31 ± 0.17 ^a	0.30 ± 0.17 ^a	0.40 ± 0.05 ^a	0.40 ± 0.05 ^a	0.18 ^b	—	—	—	<i>Aspergillus niger</i>	0.10 ^a	0.10 ^a	0.10 ^a	0.10 ^a	0.23 ± 0.05 ^a	0.23 ± 0.05 ^a	0.40 ± 0.05 ^a	0.40 ± 0.05 ^a	0.15 ^b	—	—	—	<i>Candida albicans</i>	0.20 ^a	0.20 ^a	0.20 ^a	0.20 ^a	0.23 ± 0.12 ^a	0.23 ± 0.12 ^a	0.40 ± 0.05 ^a	0.40 ± 0.05 ^a	0.22 ^c	—	—	—	<i>Pectobacterium atrosepticum</i>	0.10 ^a	0.10 ^a	0.10 ^a	0.10 ^a	0.23 ± 0.12 ^a	0.23 ± 0.12 ^a	0.40 ± 0.05 ^a	0.40 ± 0.05 ^a	0.22 ^c	—	—	—	<i>Stephanothrix aurescens</i>	0.20 ^a	0.20 ^a	0.31 ± 0.05 ^a	0.43 ± 0.05 ^a	0.21 ± 0.05 ^a	0.36 ± 0.05 ^a	0.40 ± 0.05 ^a	0.40 ± 0.05 ^a	0.20 ^c	—	—	—	<i>Sphingomonas maculata</i>	0.05 ^a	0.05 ^a	0.05 ^a	0.05 ^a	0.12 ± 0.05 ^a	0.12 ± 0.05 ^a	0.23 ± 0.05 ^a	0.23 ± 0.05 ^a	—	—	—	—	<i>Mean with the same letters within the same column are not significantly different ($p < 0.05$)</i>																				<p>Seventeen compounds were identified in the EO of <i>C. citriodora</i> leaves (Table 2). The major constituents were <i>o</i>-citroneol (56.0%), <i>o</i>-citroneol (14.7%), citronell acetate (12.3%), isopulegol (7.6%), eugenol (2.0%), limonene (1.4%), <i>l</i>-limonene (1.4%), caryophyllene oxide (1.2%), and <i>l</i>-terpineol (1.2%).</p> <p>Antibacterial activity.</p> <p>The MIC values of EO from <i>C. citriodora</i> leaves ranged from 0.06 mg/mL against <i>E. coli</i> to 0.20 mg/mL against <i>S. aureus</i>, and those values were lower than the MIC values reported against <i>E. coli</i> by 2–3 times. The MIC value of this oil was comparable or even higher than reference antibiotic in case of <i>Aspergillus niger</i>.</p> <p>The MIC values of EO from <i>C. citriodora</i> ranged from 0.12 mg/mL against <i>E. coli</i> to 0.41 mg/mL against <i>S. aureus</i>, whereas, the values were between 0.15 mg/mL (<i>E. coli</i>) and 0.40 mg/mL (<i>S. aureus</i>). The MIC values of EO from <i>C. citriodora</i> and <i>C. macrocarpa</i> branches showed less activity against bacterial strains. The MIC values ranged from 0.07 mg/mL to 0.40 mg/mL against <i>E. coli</i> and <i>S. aureus</i>. The MIC values of EO from <i>C. citriodora</i> and <i>C. macrocarpa</i> showed noticeable activity against phytopathogenic bacteria including <i>Pectobacterium atrosepticum</i>, <i>P. pectinolyticum</i>, <i>Candida albicans</i>, <i>Sphingomonas maculata</i>, and <i>Stephanothrix aurescens</i>. All the MIC values reported against the potato pathogenic bacteria were lower than those reported for the negative control, streptomycin.</p> <p>Means with the same letters within the same column are not significantly different ($p < 0.05$)</p>																																																																																																										
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<i>Sphingomonas maculata</i>	0.05 ^a	0.05 ^a	0.05 ^a	0.05 ^a	0.12 ± 0.05 ^a	0.12 ± 0.05 ^a	0.23 ± 0.05 ^a	0.23 ± 0.05 ^a	—	—	—	—																																																																																																																																																																																																																																																																																					
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PMCS77779		<table border="1"><thead><tr><th colspan="10">Table 3</th></tr><tr><th colspan="5">Minimum inhibitory concentration (MIC) and fungicidal concentration (MFC) of different leaf extracts (mg/mL) of <i>Corymbia citriodora</i> and <i>Cupressus macrocarpa</i></th><th colspan="5">Antifungal activity</th></tr><tr><th>Fungal strains</th><th><i>Corymbia citriodora</i></th><th><i>Corymbia citriodora</i></th><th><i>Cupressus macrocarpa</i></th><th><i>Cupressus macrocarpa</i></th><th>MIC</th><th>MIC</th><th>MIC</th><th>MIC</th><th>MFC</th><th>MIC</th><th>MIC</th><th>MFC</th></tr></thead><tbody><tr><td><i>Aspergillus flavus</i></td><td>0.21 ± 0.01^a</td><td>0.46 ± 0.01^a</td><td>0.31 ± 0.01^a</td><td>0.75 ± 0.23^a</td><td>0.23 ± 0.01^a</td><td>0.23 ± 0.01^a</td><td>0.46 ± 0.01^a</td><td>0.46 ± 0.01^a</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td><i>Aspergillus ochraceus</i></td><td>0.26 ± 0.11^a</td><td>0.51 ± 0.01^a</td><td>0.54 ± 0.01^a</td><td>1.43 ± 0.22^a</td><td>0.23 ± 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± 0.01 ^a	0.10 ± 0.01 ^a	—	—	—	—	<i>Botryotinia niveoannulata</i>	0.07 ± 0.01 ^a	0.14 ± 0.01 ^a	0.14 ± 0.01 ^a	0.14 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.14 ± 0.01 ^a	0.14 ± 0.01 ^a	—	—	—	—	<i>Botryotinia fuckeliana</i>	0.05 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	—	—	—	—	<i>Botryotinia cinerea</i>	0.05 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	—	—	—	—	<i>Botryotinia niveoannulata</i>	0.05 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	—	—	—	—	<i>Botryotinia fuckeliana</i>	0.05 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	—	—	—	—	<i>Botryotinia niveoannulata</i>	0.05 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	—	—	—	—	<i>Botryotinia fuckeliana</i>	0.05 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	—	—	—	—	<i>Botryotinia niveoannulata</i>	0.05 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	—	—	—	—	<i>Botryotinia fuckeliana</i>	0.05 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	—	—	—	—	<i>Botryotinia niveoannulata</i>	0.05 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.08 ± 0.01 ^a	0.0																					
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<i>Penicillium italicum</i>	0.05 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	—	—	—																																																																																																																																																																																																																																																																																					
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<i>Penicillium digitatum</i>	0.05 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	—	—	—																																																																																																																																																																																																																																																																																					
<i>Botryotinia fuckeliana</i>	0.07 ± 0.01 ^a	0.14 ± 0.01 ^a	0.14 ± 0.01 ^a	0.14 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.14 ± 0.01 ^a	0.14 ± 0.01 ^a	—	—	—	—																																																																																																																																																																																																																																																																																					
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<i>Botryotinia niveoannulata</i>	0.05 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	—	—	—	—																																																																																																																																																																																																																																																																																					
<i>Botryotinia fuckeliana</i>	0.05 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	0.08 ± 0.01 ^a	0.08 ± 0.01 ^a	0.10 ± 0.01 ^a	0.10 ± 0.01 ^a	—	—	—	—																																																																																																																																																																																																																																																																																					
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Article	Table type	Table Image	paragraphs just before the table (with title, if any)	Table_Caption	Keywords_Phrases	Table_Footnote KEY_Abbreviation s	Measurements	Measurement Unit	Method	Plant Material	Targets	Non-Plant Substrates, Solvents, Media, Substrate	Notes	Table Type	Col1	Col2	Col3	Col4	Col5	Col6																																																																																	
PMCS071051	Bacteria	Table 3. Minimum Inhibitory Concentration (MIC) and Minimum Bactericidal Concentration (MBC) of <i>Rose Water</i> , <i>Eucalyptus globulus</i> , and <i>Listeria</i> spp isolated From Seafood	<p>Name of Medicinal Plants <i>Listeria monocytogenes</i> <i>Listeria grayi</i></p> <table border="1"><thead><tr><th>MIC (mg/mL)</th><th><i>Rose water</i></th><th><i>Eucalyptus globulus</i></th><th><i>Rose water</i></th><th><i>Rose water</i></th><th><i>Eucalyptus globulus</i></th></tr></thead><tbody><tr><td>0.51</td><td>0.51</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.32</td><td>0.32</td><td>1.60</td><td>—</td><td>—</td><td>—</td></tr><tr><td>NE</td><td>NE</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.49</td><td>—</td><td>49</td><td>—</td><td>—</td><td>—</td></tr><tr><td>247</td><td>—</td><td>4</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.48</td><td>—</td><td>48</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.70</td><td>0.70</td><td>5.62</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.70</td><td>0.70</td><td>2.812</td><td>—</td><td>—</td><td>—</td></tr><tr><td>NE</td><td>NE</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>499</td><td>—</td><td>999</td><td>—</td><td>—</td><td>—</td></tr><tr><td>499</td><td>—</td><td>999</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.60</td><td>0.60</td><td>723</td><td>—</td><td>—</td><td>—</td></tr></tbody></table> <p>Abbreviations: E, ethanol extract; EO, essential oil; NE, no effect</p>	MIC (mg/mL)	<i>Rose water</i>	<i>Eucalyptus globulus</i>	<i>Rose water</i>	<i>Rose water</i>	<i>Eucalyptus globulus</i>	0.51	0.51	—	—	—	—	0.32	0.32	1.60	—	—	—	NE	NE	—	—	—	—	0.49	—	49	—	—	—	247	—	4	—	—	—	0.48	—	48	—	—	—	0.70	0.70	5.62	—	—	—	0.70	0.70	2.812	—	—	—	NE	NE	—	—	—	—	499	—	999	—	—	—	499	—	999	—	—	—	0.60	0.60	723	—	—	—	Minimum Inhibitory Concentration (MIC) and Minimum Bactericidal Concentration (MBC) of the <i>Bumium persicum</i> , <i>Eucalyptus globulus</i> , and <i>Rose Water</i> Against <i>Listeria</i> spp Isolated From Seafood.	[MEASUREMENT(S)] and [MEASUREMENT(S)] of the [PLANT(S)] Isolated From [SUBSTRATE].	Abbreviations: E, ethanolic extract; EO, essential oil; NE, no effect.	MIC (mg/mL) MBC (mg/mL)	(mg/mL)									Name of Medicinal Plants	<i>Listeria</i> monocytes	<i>Listeria</i> grayi				
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PMCS071294		Table 2. Antimicrobial Activity (MIC and MBC) of Essential Oil Distilled From Salvia miltazyan.	<p>The antimicrobial activities of <i>Salvia miltazyan</i> essential oil are shown in Table 2. Essential oils inhibited the growth of all gram-positive bacteria at the concentrations of 0.03 to 5 µg/mL. The essential oils exhibited gram-antibacterial activity (MIC) against all the above-mentioned gram-positive bacteria at concentrations ranging from 0.062 to 32 µg/mL. The MIC of <i>Streptococcus pyogenes</i> ATCC 8668 was only in concentrations >0.63 µg/mL.</p>	Antimicrobial Activity (MIC and MBC) of Essential Oil Distilled From <i>Salvia miltazyan</i> .	[ACTIVITY(S)] Activity [MEASUREMENT(S)] of [EXTRACT(S)] From [PLANT(S)]	Abbreviations: GM, geometric mean; MIC, minimum inhibitory concentration; MBC, minimum bactericidal concentration	MIC95 (µL/mL) MIC95 (µL/mL) MIC95 (µL/mL)	µL/mL							Bacteria (Number of Strains)	MIC95, GM µL/mL (Range)	MBC, GM µL/mL (Range)																																																																																				
PMCS071294		Table 3. Antifungal Activity (MIC and MFC) of Essential Oil From <i>Salvia miltazyan</i> .	<p>The antifungal activities of <i>Salvia miltazyan</i> essential oil against fungi are exhibited in Table 3. For the clinical and standard test strains MIC50 and MIC95 for the <i>Salvia miltazyan</i> essential oil were in the range of 0.03 to 1 and 0.06 to 2 µL/mL, respectively, with <i>Candida glabrata</i> and <i>Candida dohertyi</i> demonstrating the lowest MIC50 and MIC95 values.</p>	Antifungal Activity (MIC and MFC) of Essential Oil From <i>Salvia miltazyan</i> .	[ACTIVITY(S)] Activity [MEASUREMENT(S)] of [EXTRACT(S)] From [PLANT(S)]	Abbreviations: MIC, minimum inhibitory concentration; MFC, minimum fungal concentration	MIC50 (µL/mL) MIC95 (µL/mL) MIC95 (µL/mL)	µL/mL							Code	Species	MIC50 (µL/mL)	MIC95 (µL/mL)	MFC (µL/mL)																																																																																		
PMCS071294		Table 4. Antifungal Activity of Essential Oil of <i>Salvia miltazyan</i> against Azole-Sensitive and Azole-Resistant <i>Candida</i> .	<p>According to Table 4, <i>Salvia miltazyan</i> essential oil at concentrations of 0.03 to 1 µL/mL inhibited the growth of about half of the azole-sensitive <i>Candida</i>, in addition, MIC50 for the essential oil antifungal activity against azole-resistant <i>Candida</i> was 0.12 to 1 µL/mL.</p>	Antifungal Activity of Essential Oil of <i>Salvia miltazyan</i> against Azole-Sensitive and Azole-Resistant <i>Candida</i> .	[ACTIVITY(S)] Activity [EXTRACT(S)] of [PLANT(S)] against Azole-Sensitive and Azole-Resistant [TARGET(S)].	Abbreviations: GM, geometric mean; MIC, minimum inhibitory concentration; MFC, minimum fungal concentration.									Species (Number)	MIC50, GM µL/mL (Range)	MIC95, GM µL/mL (Range)	MFC, GM µL/mL (Range)																																																																																			
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PMCS0932022		Table 3 Determination of minimum inhibitory concentration (MIC) of the oilegols containing different concentrations of thyme essential oil.	<p>3.3. Antimicrobial Test</p> <p>The antimicrobial assay of the oilegols with essential oil of thyme was performed against <i>Candida albicans</i>. The minimum inhibitory concentration was determined after treating the oilegols with different concentrations of thyme oil. The oilegol may be tried as matrices for drug delivery or can be alternative preparation for the chemical drugs.</p>	Determination of minimum inhibitory concentration (MIC) of the oilegols containing different concentrations of thyme essential oil.	Determination of [MEASUREMENT(S)] of the oilegols containing different concentrations of [PLANT(S)] [EXTRACT(S)]	MIC	%								CHECK THE UNITS	Essential oil of thyme concentration in oilegols, %	Effectiveness against <i>Candida albicans</i>																																																																																				
PMCS0980151	antiBact	Table 3 Minimal inhibitory concentration (MIC) (µL) of tested essential oils	<p>Susceptibility of <i>Prototrochus zopifili</i> isolates to Tested Essential Oils</p> <table border="1"><thead><tr><th>No.</th><th>Species</th><th>Strain number</th><th>Clinical material</th><th>Minimal inhibitory concentration (MIC) (µL) of tested essential oils</th></tr></thead><tbody><tr><td>1</td><td>P. zopifili</td><td>161</td><td>Milk cows with mastitis</td><td>0.5 I 0.25 R</td></tr><tr><td>2</td><td>P. zopifili</td><td>194</td><td>As above</td><td>0.25 0.5 0.25 R</td></tr><tr><td>3</td><td>P. zopifili</td><td>350</td><td>As above</td><td>0.5 I 0.25 R</td></tr><tr><td>4</td><td>P. zopifili</td><td>166/IV</td><td>As above</td><td>1 0.5 R</td></tr><tr><td>5</td><td>P. zopifili</td><td>44/IV</td><td>As above</td><td>0.5 I 0.25 R</td></tr><tr><td>6</td><td>P. zopifili</td><td>49/IV</td><td>As above</td><td>0.25 0.5 0.25 R</td></tr><tr><td>7</td><td>P. zopifili</td><td>71/IV</td><td>As above</td><td>1 0.5 R</td></tr><tr><td>8</td><td>P. zopifili</td><td>74/IV</td><td>As above</td><td>1 0.5 R</td></tr><tr><td>9</td><td>P. zopifili</td><td>76/IV</td><td>As above</td><td>I 0.25 R</td></tr><tr><td>10</td><td>P. zopifili</td><td>764/IV</td><td>As above</td><td>I 0.5 R</td></tr></tbody></table> <p>R, resistant</p>	No.	Species	Strain number	Clinical material	Minimal inhibitory concentration (MIC) (µL) of tested essential oils	1	P. zopifili	161	Milk cows with mastitis	0.5 I 0.25 R	2	P. zopifili	194	As above	0.25 0.5 0.25 R	3	P. zopifili	350	As above	0.5 I 0.25 R	4	P. zopifili	166/IV	As above	1 0.5 R	5	P. zopifili	44/IV	As above	0.5 I 0.25 R	6	P. zopifili	49/IV	As above	0.25 0.5 0.25 R	7	P. zopifili	71/IV	As above	1 0.5 R	8	P. zopifili	74/IV	As above	1 0.5 R	9	P. zopifili	76/IV	As above	I 0.25 R	10	P. zopifili	764/IV	As above	I 0.5 R	Minimal inhibitory concentration (MIC) (µL) of tested [EXTRACT(S)] [MEASUREMENT(S)] of [PLANT(S)] [EXTRACT(S)]	R, resistant	MIC	µL/ml									No.	Species	Strain number	Clinical material	Minimal inhibitory concentration (MIC) (µL) of tested essential oils (Thyme, Oregano, Marjoram, Wild garlic, Mint)																										
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PMCS0960548		Table 3 Antimicrobial activity of the essential oil of <i>Melaleuca alternifolia</i> .	<p>3.3. Antimicrobial Activity</p> <p><i>E. coli</i>, <i>S. aureus</i>, <i>P. aeruginosa</i>, <i>P. dacunhae</i> Wehmeyer, and <i>P. digitatum</i> Sacc. are the most common pathogenic bacteria. <i>C. albicans</i> and <i>P. aeruginosa</i> are pathogenic bacteria [24], whereas <i>P. italicum</i> Wehmeyer and <i>P. digitatum</i> Sacc. are fungi [25]. Because these organisms infect, damage, and destroy living tissue, they are considered to be important pathogens producing these microorganisms increase economic costs in various industries, including medicinal, cosmetic, agricultural, and food industries. Thus, the antimicrobial activity of the essential oil of <i>M. alternifolia</i> was investigated with three different methods on the pathogenic bacteria and fungi using the MBC assays. The results presented in Table 3 clearly show that the essential oil of <i>M. alternifolia</i> displayed significant antimicrobial activity against all microorganisms tested. The results also show that the essential oil of <i>M. alternifolia</i> has Gram-negative bacteria and fungi. <i>E. coli</i> had the lowest MIC (2 mg/mL). These data are consistent with previous observations that <i>Melaleuca alternifolia</i> has antimicrobial activity due to the decrease in ATP generation, and (ii) cellular lysis due to leakage or coagulation of the cytoplasm [26, 27]. The compound terpinene-4-ol, also identified amongst the main constituents of the Iranian <i>M. alternifolia</i> terpenes, is associated with its strong hydrophobicity. Here, the hydrophobic nature of the essential oil of <i>M. alternifolia</i> is responsible for the pathogenic microorganisms, which affect the permeability of the membrane [10]. 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Article	Table type	Table Image	paragraphs just before the table (with title, if any)	Table_Caption	Keywords_Phrases	Table_Footnote_KEY_Abbreviation_s	Measurements	Measurement Unit	Method	Plant Material	Targets	Non-Plant Control Substances, Solvents, Media, Substrate	Notes	Table Type	Col1	Col2	Col3	Col4	Col5	Col6																											
PMC6011056		<table border="1"> <caption>Table 3</caption> <p>Minimum concentration of essential oil from <i>C. cassia</i> (EOC) and <i>C. zeylanicum</i> (EOCz) stems, (E)-cinnamaldehyde and oxacillin (mg/ml) reduce biofilm biomass by 100% in comparison to normal biofilm growth.</p> </table>	<p>3.3. Antifungal Activity of the Essential Oils from the Trunk Bark of <i>C. zeylanicum</i> and <i>C. cassia</i> and Cinnamaldehyde</p> <p>3.3.1. Quantification of Biofilm Biomass and Cell Viability in Biofilms</p> <p>The biofilm biomass quantification data are shown in Table 3.</p>	<p>Minimum concentration of essential oil from <i>C. cassia</i> (EOC) and <i>C. zeylanicum</i> (EOCz) stems, (E)-cinnamaldehyde and oxacillin (mg/ml) reduce biofilm biomass by 100% in comparison to normal biofilm growth.</p>	<p>Minimum concentration of [EXTRACT(S)] from [PLANT(S)]/[PART(S)], [CONTROL(S)]/[UNIT(S)]/[TARGET(T)] is 100% in normal [TARGET(T)] growth.</p>	MIC					(E)-cinnamaldehyde Oxacillin		Microorganisms	Substances																																	
PMC6015887		<table border="1"> <caption>Table 2</caption> <p>MIC and MFC of CEO against <i>C. acutatum</i>.</p> </table>	<p>Effect of CEO on <i>C. acutatum</i> <i>In Vitro</i></p> <p>We evaluated the antifungal activity of CEO <i>in vitro</i> against <i>C. acutatum</i>. The antifungal activity was mainly determined by inhibition of mycelial growth and spore germination of <i>C. acutatum</i>. The mycelial growth of <i>C. acutatum</i> was sensitive to CEO (Figure 2A).</p> <p>Figure 2A</p> <p>2A. The mycelial growth of <i>C. acutatum</i> (CEO-treated group) was reduced during inoculation with the increased concentration of CEO, with the greater inhibition at the higher concentration ($p < 0.05$). The mycelial growth of <i>C. acutatum</i> was completely inhibited by CEO at the concentration of 0.2 μL/mL. The effects of CEO on the spore germination of <i>C. acutatum</i> were shown in Figure 2B.</p> <p>Figure 2B</p> <p>2B. At different concentrations of CEO had a significant inhibitory effect on spore germination (Figure 2B, $p < 0.05$). Observations showed an inhibition on the spore germination of <i>C. acutatum</i> within the range of 0.075–0.150 μL/mL. Results indicated that the spore germination was reduced with the increasing CEO concentrations. CEO could</p>	<p>Concentration of CEO (μL/mL)</p> <table border="1"> <thead> <tr> <th></th> <th>MIC</th> <th>MFC</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>+++</td> <td>+++</td> </tr> <tr> <td>0.075</td> <td>+++</td> <td>+++</td> </tr> <tr> <td>0.100</td> <td>++</td> <td>++</td> </tr> <tr> <td>0.125</td> <td>+</td> <td>+</td> </tr> <tr> <td>0.150</td> <td>+</td> <td>+</td> </tr> <tr> <td>0.175</td> <td>–</td> <td>–</td> </tr> <tr> <td>0.200</td> <td>–</td> <td>–</td> </tr> <tr> <td>0.225</td> <td>–</td> <td>–</td> </tr> </tbody> </table>		MIC	MFC	0	+++	+++	0.075	+++	+++	0.100	++	++	0.125	+	+	0.150	+	+	0.175	–	–	0.200	–	–	0.225	–	–	<p>(MEASUREMENT(S)) of [PLANT(S)]/[EXTRACT(S)] against [TARGET(T)]</p>	<p>rowth of <i>C. acutatum</i> in the presence of CEO. Medium used: PDA. Inoculating in dark at 25°C. Growth: +++, very good; ++, good; +, fair; +, little; -, no growth. Values are mean ($n = 3$).</p>								Concentration of CEO (μ L/mL)	MIC	MFC				
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