

Supplementary Material

Antibacterial and antifungal activities of essential oils from medicinal plants found in the South Pacific

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Table S1. Effect of control on selected bacteria and fungi.

Bacteria	Ampicillin discs -Standard Control (mm)	Fungi	Nistat discs -Standard Control (mm)
<i>Thermus thermophilus</i>	14.80	<i>Aspergillus aureus</i>	10.17
<i>Pseudomonas aeruginosa</i>	14.61	<i>Rhizopus stolonifer</i>	0.00
<i>Streptococcus pneumonia</i>	41.48	<i>Penicillium chrysogenum</i>	12.10
<i>Staphylococcus aureus</i>	41.53	<i>Sordaria wild</i>	11.73
<i>Salmonella typhi</i>	24.26	<i>Sordaria gray</i>	14.83

Table S2. Mean and Standard Error (SE) for effects of varying concentration of the essential oils on different bacteria.

Essential oil	Bacteria	0.25 ^a	0.5 ^b	5 ^c	25 ^d	50 ^e	100 ^f
<i>Ocimum tenuiflorum</i> L	<i>Thermus thermophilus</i>	0	0	0	8.00±0.63	8.00±0.55	17.20±0.20
	<i>Pseudomonas aeruginosa</i>	0	0	0	4.80±1.98	8.80±0.86	16.20±0.20
	<i>Streptococcus pneumonia</i> *	0	0	0	5.60±1.40	7.80±0.58	17.80±0.49
	<i>Staphylococcus aureus</i> *	0	0	0	10.20±1.11	10.80±1.88	25.60±0.68
	<i>Salmonella typhi</i>	0	0	0	3.00±1.84	7.60±0.24	14.80±0.20
	<i>Thermus thermophilus</i>	0	0	5.40±2.20	10.60±1.25	13.80±0.37	15.40±0.40
<i>Cymbopogon citratus</i>	<i>Pseudomonas aeruginosa</i>	0	0	3.20±1.96	12.00±1.10	14.40±0.68	15.00±0.89
	<i>Streptococcus pneumonia</i> *	0	0	0	4.40±1.81	9.20±0.66	15.20±0.37
	<i>Staphylococcus aureus</i> *	0	0	0	7.60±2.25	9.80±0.58	14.80±0.20
	<i>Salmonella typhi</i>	0	0	0	0	0	0
<i>Cananga odorata</i>	<i>Thermus thermophilus</i>	1.60±1.60	2.80±1.71	3.00±1.84	8.40±0.60	11.40±1.08	12.20±1.16
	<i>Pseudomonas aeruginosa</i>	4.20±1.71	4.40±1.81	7.80±0.37	8.60±0.24	11.60±1.21	12.60±0.75
	<i>Streptococcus pneumonia</i> *	0	0	0	7.00±0.00	7.20±0.20	7.40±0.40
	<i>Staphylococcus aureus</i> *	0	0	4.20±1.71	8.00±0.55	8.80±0.20	10.20±0.37
	<i>Salmonella typhi</i>	0	0	0	0	0	0
	<i>Thermus thermophilus</i>	0	0	0	0	5.80±1.46	10.80±1.32
<i>Euodia hortensis</i> <i>forma hortensis</i>	<i>Pseudomonas aeruginosa</i>	0	0	0	0	5.60±1.40	11.20±0.73
	<i>Streptococcus pneumonia</i> *	0	0	0	0	0	7.40±0.25
	<i>Staphylococcus aureus</i> *	0	0	0	0	0	8.40±0.51
<i>Murraya koenigii</i> (L) Spreng	<i>Salmonella typhi</i>	0	0	0	0	0	0
	<i>Thermus thermophilus</i>	0	0	0	0	1.40±1.40	3.00±1.84
	<i>Pseudomonas aeruginosa</i>	0	0	0	0	1.40±1.40	2.80±1.71
	<i>Streptococcus pneumonia</i> *	0	0	0	0	0	0
	<i>Staphylococcus aureus</i> *	0	0	0	0	0	1.60±1.60
	<i>Salmonella typhi</i>	0	0	0	0	0	0

Note: Gram (+) bacteria = *, 0= no diameter of inhibition zone, (Mean ± Standard Error) the mean value in (mm); ^a, ^b, ^c, ^d, ^e and ^f referred to concentrations (%).

Table S3. Mean and Standard Error (SE) for effects of varying concentration of the essential oils on different fungi.

Essential oils	Fungi	0.25 ^a	0.5 ^b	5 ^c	25 ^d	50 ^e	100 ^f
<i>Ocimum tenuiflorum</i> L	<i>Aspergillus aureus</i>	0	0	0	12.80±1.39	13.80±2.52	32.40±1.44
	<i>Rhizopus stolonifer</i>	0	0	0	6.60±1.75	7.00±1.79	25.80±1.80
	<i>Penicillium chrysogenum</i>	0	0	4.80±3.01	7.40±2.23	12.40±3.80	34.40±5.01
	<i>Sordaria wild</i>	0	0	0	11.60±5.05	15.80±1.16	31.60±4.50
	<i>Sordaria gray</i>	0	0	0	12.80±0.66	19.80±1.56	37.40±2.18
<i>Cymbopogon citratus</i>	<i>Aspergillus aureus</i>	0	0	0	4.20±1.71	9.20±3.76	11.00±4.49
	<i>Rhizopus stolonifer</i>	0	0	0	4.60±1.89	8.20±0.49	14.40±0.93
	<i>Penicillium chrysogenum</i>	0	0	0	7.80±0.37	9.80±0.58	14.20±8.71
	<i>Sordaria wild</i>	0	0	0	1.60±1.60	1.80±1.80	6.20±3.83
	<i>Sordaria gray</i>	0	0	0	0	4.80±2.96	7.40±4.60
<i>Cananga odorata</i>	<i>Aspergillus aureus</i>	0	0	0	0	0	7.40±0.24
	<i>Rhizopus stolonifer</i>	0	0	0	7.20±0.20	7.20±2.01	7.60±0.24
	<i>Penicillium chrysogenum</i>	0	0	0	0	0	13.80±4.04
	<i>Sordaria wild</i>	0	0	0	2.20±2.02	4.20±1.71	10.80±0.86
	<i>Sordaria gray</i>	0	0	2.00±2.00	4.20±2.62	6.80±1.74	9.00±0.84
<i>Euodia hortensis</i>	<i>Aspergillus aureus</i>	0	0	0	0	8.80±0.86	18.80±3.50
	<i>Rhizopus stolonifer</i>	0	0	0	0	4.80±1.98	12.60±1.17
	<i>Penicillium chrysogenum</i>	0	0	0	0	2.80±1.71	13.60±2.71
	<i>Sordaria wild</i>	0	0	0	0	5.20±2.22	19.00±0.63
	<i>Sordaria gray</i>	0	0	0	0	1.40±1.40	22.60±0.93
<i>Murraya Koenigii</i>	<i>Aspergillus aureus</i>	0	0	0	0	0	3.00±1.84
	<i>Rhizopus stolonifer</i>	0	0	0	0	0	2.20±2.20
	<i>Penicillium chrysogenum</i>	0	0	0	0	0	1.40±1.40
	<i>Sordaria wild</i>	0	0	0	0	0	6.20±2.85
	<i>Sordaria gray</i>	0	0	0	0	0	6.20±2.73

Note:(Mean ± Standard Error); 0= no diameter for inhibition zone; ^{a, b, c, d, e} and ^f indicated different concentrations (%).