

TABLES

Table S1. Disc diffusion zone of inhibition (ZI) results for *Staphylococcus epidermidis*.

Trial/EO	On Guard®		Cinnamon		Clove		Eucalyptus		Orange		Rosemary		Chl		NC	
	ZI (mm)	N _x	ZI (mm)	N _x	ZI (mm)	N _x	ZI (mm)	N _x	ZI (mm)	N _x	ZI (mm)	N _x	ZI (mm)	N _x	ZI (mm)	N _x
n1	10	<i>0.42</i>	22	<i>0.92</i>	12	<i>0.50</i>	10	<i>0.42</i>	8	<i>0.33</i>	8	<i>0.33</i>	24	<i>1</i>	0	<i>0</i>
n2	8	<i>0.32</i>	22	<i>0.88</i>	12	<i>0.48</i>	6	<i>0.24</i>	7	<i>0.28</i>	0	<i>0</i>	25	<i>1</i>	0	<i>0</i>
n3	8	<i>0.31</i>	18	<i>0.69</i>	12	<i>0.46</i>	6	<i>0.23</i>	7	<i>0.27</i>	0	<i>0</i>	26	<i>1</i>	0	<i>0</i>
n4	8	<i>0.32</i>	21	<i>0.84</i>	12	<i>0.48</i>	0	<i>0</i>	7	<i>0.28</i>	6	<i>0.24</i>	25	<i>1</i>	0	<i>0</i>

Note. Zone of inhibition (ZI) measurements in mm, with normalization (N_x) to Chloramphenicol.

Table S2. Disc diffusion zone of inhibition (ZI) results for *Bacillus subtilis*.

Trial/EO	On Guard®		Cinnamon		Clove		Eucalyptus		Orange		Rosemary		Chl		NC	
	ZI (mm)	N _x	ZI (mm)	N _x	ZI (mm)	N _x	ZI (mm)	N _x	ZI (mm)	N _x	ZI (mm)	N _x	ZI (mm)	N _x	ZI (mm)	N _x
n1	7	<i>0.41</i>	19	<i>1.12</i>	12	<i>0.71</i>	0	<i>0.00</i>	8	<i>0.47</i>	0	<i>0.00</i>	17	<i>1</i>	0	<i>0</i>
n2	8	<i>0.47</i>	23	<i>1.35</i>	13	<i>0.76</i>	0	<i>0.00</i>	7	<i>0.41</i>	0	<i>0.00</i>	17	<i>1</i>	0	<i>0</i>
n3	11	<i>0.65</i>	24.5	<i>1.44</i>	13	<i>0.76</i>	7	<i>0.41</i>	6	<i>0.35</i>	8	<i>0.47</i>	17.5	<i>1</i>	0	<i>0</i>
n4	12	<i>0.71</i>	22	<i>1.29</i>	12	<i>0.71</i>	7	<i>0.41</i>	6	<i>0.35</i>	7	<i>0.41</i>	17	<i>1</i>	0	<i>0</i>

Note. Zone of inhibition (ZI) measurements in mm, with normalization (N_x) to Chloramphenicol.

Table S3. Disc diffusion zone of inhibition (ZI) results for *Pseudomonas aeruginosa*.

Trial/ EO	On Guard®		Cinnamon		Clove		Eucalyptus		Orange		Rosemary		Chl		NC	
	ZI (mm)	N_x	ZI (mm)	N_x	ZI (mm)	N_x	ZI (mm)	N_x	ZI (mm)	N_x	ZI (mm)	N_x	ZI (mm)	N_x	ZI (mm)	N_x
n1	6	<i>0.46</i>	9	<i>0.69</i>	6	<i>0.46</i>	0	<i>0.00</i>	0	<i>0.00</i>	0	<i>0.00</i>	13	<i>1</i>	0	<i>0</i>
n2	6	<i>0.46</i>	12	<i>0.92</i>	7	<i>0.54</i>	0	<i>0.00</i>	0	<i>0.00</i>	0	<i>0.00</i>	13	<i>1</i>	0	<i>0</i>
n3	6	<i>0.48</i>	12	<i>0.96</i>	6	<i>0.48</i>	0	<i>0.00</i>	0	<i>0.00</i>	0	<i>0.00</i>	12.5	<i>1</i>	0	<i>0</i>
n4	6	<i>0.48</i>	11	<i>0.88</i>	6	<i>0.48</i>	0	<i>0.00</i>	0	<i>0.00</i>	0	<i>0.00</i>	12.5	<i>1</i>	0	<i>0</i>

Note. Zone of inhibition (ZI) measurements in mm, with normalization (N_x) to Chloramphenicol.

Table S4. Disc diffusion zone of inhibition (ZI) results for *Staphylococcus aureus*.

Trial/ EO	On Guard®		Cinnamon		Clove		Eucalyptus		Orange		Rosemary		Chl		NC	
	ZI (mm)	N_x	ZI (mm)	N_x	ZI (mm)	N_x	ZI (mm)	N_x	ZI (mm)	N_x	ZI (mm)	N_x	ZI (mm)	N_x	ZI (mm)	N_x
n1	10	<i>0.39</i>	21	<i>0.82</i>	17	<i>0.67</i>	0	<i>0.00</i>	7	<i>0.27</i>	0	<i>0.00</i>	25.5	<i>1</i>	0	<i>0</i>
n2	12	<i>0.46</i>	24	<i>0.92</i>	18	<i>0.69</i>	7	<i>0.27</i>	6	<i>0.23</i>	8	<i>0.31</i>	26	<i>1</i>	0	<i>0</i>
n3	12	<i>0.53</i>	24	<i>1.07</i>	15	<i>0.67</i>	7.5	<i>0.33</i>	7	<i>0.31</i>	7	<i>0.31</i>	22.5	<i>1</i>	0	<i>0</i>
n4	11	<i>0.46</i>	25	<i>1.04</i>	14.5	<i>0.60</i>	8	<i>0.33</i>	6	<i>0.25</i>	8	<i>0.33</i>	24	<i>1</i>	0	<i>0</i>

Note. Zone of inhibition (ZI) measurements in mm, with normalization (N_x) to Chloramphenicol.

Table S5. Summary of data using Chloramphenicol normalized values.

	Organism	On Guard	Cinnamon	Clove	Eucalyptus	Wild Orange	Rosemary	Negative Control	Chloramphenicol
N	<i>S. epidermidis</i>	4	4	4	4	4	4	4	4
	<i>B. subtilis</i>	4	4	4	4	4	4	4	4
	<i>P. aeruginosa</i>	4	4	4	4	4	4	4	4
	<i>S. aureus</i>	4	4	4	4	4	4	4	4
Mean	<i>S. epidermidis</i>	0.341	0.832	0.480	0.222	0.291	0.143	0.00	1.00
	<i>B. subtilis</i>	0.559	1.30	0.735	0.206	0.397	0.221	0.00	1.00
	<i>P. aeruginosa</i>	0.471	0.864	0.490	0.00	0.00	0.00	0.00	1.00
	<i>S. aureus</i>	0.461	0.964	0.657	0.234	0.277	0.238	0.00	1.00
Median	<i>S. epidermidis</i>	0.320	0.860	0.480	0.235	0.280	0.120	0.00	1.00
	<i>B. subtilis</i>	0.559	1.32	0.735	0.206	0.382	0.206	0.00	1.00
	<i>P. aeruginosa</i>	0.471	0.902	0.480	0.00	0.00	0.00	0.00	1.00
	<i>S. aureus</i>	0.460	0.982	0.667	0.301	0.283	0.309	0.00	1.00
Std. dev.	<i>S. epidermidis</i>	0.0507	0.0984	0.0157	0.171	0.0289	0.170	0.00	0.00
	<i>B. subtilis</i>	0.140	0.137	0.0339	0.238	0.0563	0.256	0.00	0.00
	<i>P. aeruginosa</i>	0.0107	0.119	0.0335	0.00	0.00	0.00	0.00	0.00
	<i>S. aureus</i>	0.0576	0.113	0.0375	0.159	0.0343	0.159	0.00	0.00
Min	<i>S. epidermidis</i>	0.308	0.692	0.462	0.00	0.269	0.00	0	1
	<i>B. subtilis</i>	0.412	1.12	0.706	0.00	0.353	0.00	0	1
	<i>P. aeruginosa</i>	0.462	0.692	0.462	0.00	0.00	0.00	0	1
	<i>S. aureus</i>	0.392	0.824	0.604	0.00	0.231	0.00	0	1
Max	<i>S. epidermidis</i>	0.417	0.917	0.500	0.417	0.333	0.333	0	1
	<i>B. subtilis</i>	0.706	1.44	0.765	0.412	0.471	0.471	0	1
	<i>P. aeruginosa</i>	0.480	0.960	0.538	0.00	0.00	0.00	0	1
	<i>S. aureus</i>	0.533	1.07	0.692	0.333	0.311	0.333	0	1