Essential oil compounds in combination with conventional antibiotics for dermatology

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Supplementary Data

Table S1. Synergistic interactions against *S. aureus*.

Isobologram plot number	Ratio volumes (µl) (Antibiotic: EOC)	Amoxicillin + Carvacrol		Gentamicin + Carvacrol		Miconazole + Carvacrol		Miconazole + Cinnamaldehyde	
		MIC of antibiotic in combination (µg/mL)	MIC of EOC in combination (µg/mL)	MIC of antibiotic in combination (µg/mL)	MIC of EOC in combination (µg/mL)	MIC of antibiotic in combination (µg/mL)	MIC of EOC in combination (µg/mL)	MIC of antibiotic in combination (µg/mL)	MIC of EOC in combination (µg/mL)
1	90:10	1.13	400	1.13	400	1.13	400	1.13	400
2	80:20	0.50	400	0.50	400	0.50	400	0.50	400
3	70:30	0.44	600	0.22	300	0.22	300	0.22	300
4	60:40	0.19	400	0.09	200	0.19	400	0.09	200
5	50:50	0.16	500	0.08	250	0.08	250	0.04	125
6	40:60	0.06	500	0.06	300	0.06	300	0.03	150
7	30:70	0.05	350	0.09	700	0.05	350	0.05	350
8	20:80	0.06	800	0.13	1600	0.06	800	0.03	400
9	10:90	0.06	1800	0.06	1800	0.03	900	0.02	450

Table S2. Synergistic interactions against *S. epidermidis*, *C. acnes* and *P. aeruginosa.*

Isobologram plot number	Ratio volumes (µl) (Antibiotic: EOC)	*S. epidermidis* (ATCC 12228)				*C. acnes* (ATCC 11827)		*P. aeruginosa* (ATCC 27853)	
		Erythromycin + Cinnamaldehyde		Miconazole + Cinnamaldehyde		Amoxicillin + Eugenol		Ciprofloxacin + Cinnamaldehyde	
		MIC of antibiotic in combination (µg/mL)	MIC of EOC in combination (µg/mL)	MIC of antibiotic in combination (µg/mL)	MIC of EOC in combination (µg/mL)	MIC of antibiotic in combination (µg/mL)	MIC of EOC in combination (µg/mL)	MIC of antibiotic in combination (µg/mL)	MIC of EOC in combination (µg/mL)
1	90:10	0.28	100	1.13	400	0.14	50	0.29	100
2	80:20	0.25	200	0.50	400	0.13	100	0.13	100
3	70:30	0.11	150	0.22	300	0.05	75	0.11	150
4	60:40	0.09	200	0.09	200	0.05	100	0.05	100
5	50:50	0.04	125	0.04	125	0.04	125	0.04	125
6	40:60	0.03	150	0.03	150	0.03	150	0.03	150
7	30:70	0.05	350	0.05	350	0.02	175	0.02	175
8	20:80	0.06	800	0.06	800	0.03	400	0.03	400
9	10:90	0.06	1800	0.03	900	0.03	900	0.03	900

Figure S1. Study design.