

Table S1. Statistical analysis of eight candidate housekeeping genes.

Statistics	Gene name							
	16S rRNA	pta	rho	gyrB	recA	rplD	rpoB	tpo
GM [Cq]	22.77	26.58	30.22	26.33	31.43	30.95	29.96	27.19
Min [Cq]	21.81	25.03	25.48	24.58	26.30	27.18	24.76	24.90
Max [Cq]	23.60	28.00	33.76	27.41	36.70	34.09	34.56	30.18
SD [\pm Cq]	0.44	0.90	2.96	1.04	3.17	2.05	2.66	1.92
CV [% Cq]	1.95	3.38	9.73	3.95	10.01	6.59	8.83	7.03
CC [r]	0.930	0.877	0.811	-0.034	0.595	-0.068	-0.133	0.669
p value	0.001	0.001	0.001	0.915	0.041	0.830	0.683	0.017

Cq – cycle of quantification; GM – geometric mean; Min – minimal value; Max – maximal value; SD – standard deviation; CV – coefficient of variance; CC [r] – correlation coefficient between each candidate and the BestKeeper index. BestKeeper performs repeated pairwise correlation and regression analyses for a given gene with all other genes.

Table S2. Cycle of quantification (Cq) obtained in this study.

Samples	Media	Cq \pm SEM						
		16S rRNA	sea	sec	sel	agrA	hld	rot
Unexposed to the RMFs (control)	A	18.15 \pm 0.24	29.17 \pm 0.17	27.38 \pm 0.30	22.83 \pm 0.31	22.75 \pm 0.23	23.75 \pm 0.29	25.89 \pm 0.13
	B	19.59 \pm 0.13	30.85 \pm 0.25	29.01 \pm 0.59	24.09 \pm 0.65	23.90 \pm 0.53	25.02 \pm 1.0	26.95 \pm 0.18
	C	18.23 \pm 0.39	28.44 \pm 0.44	27.80 \pm 0.35	22.67 \pm 0.15	21.67 \pm 0.24	23.01 \pm 0.37	25.62 \pm 0.65
Exposed to the RMF I (5 Hz)	A	19.25 \pm 0.08	30.22 \pm 0.69	29.22 \pm 0.39	24.70 \pm 0.26	23.76 \pm 0.66	24.42 \pm 0.18	27.38 \pm 0.36
	B	19.67 \pm 0.22	30.17 \pm 0.13	28.91 \pm 0.51	20.61 \pm 0.84	23.68 \pm 0.21	25.10 \pm 0.23	26.63 \pm 0.57
	C	19.41 \pm 1.04	31.27 \pm 0.19	29.27 \pm 0.19	23.14 \pm 0.92	23.74 \pm 0.18	24.90 \pm 0.11	26.90 \pm 0.11
Exposed to the RMF II (50 Hz)	A	16.97 \pm 0.03	24.90 \pm 0.68	28.31 \pm 0.36	21.82 \pm 0.22	20.42 \pm 0.38	21.85 \pm 0.06	23.90 \pm 0.56
	B	18.45 \pm 0.49	26.68 \pm 0.10	27.80 \pm 0.97	23.51 \pm 0.24	21.70 \pm 0.15	23.81 \pm 0.26	25.28 \pm 0.23
	C	19.61 \pm 0.39	30.68 \pm 0.41	30.15 \pm 0.65	24.80 \pm 0.56	23.73 \pm 0.35	24.15 \pm 0.35	27.08 \pm 0.16

SEM – standard error of measurement; RMF – rotating magnetic field; A – Mueller-Hinton agar (MHA) non-supplemented with *trans*-anethole; B – MHA supplemented with 1% (v/v) Tween 80; C – MHA supplemented with 1% (v/v) Tween 80 and subinhibitory concentration (MIC₅₀) of *trans*-anethole.

Table S3. Correlation analysis between staphylococcal enterotoxin (SE) genes expression and SEs production.

Samples	SE	Media	Spearman coefficient [r]	p value
Unexposed to the RMFs (control)		A+B+C	0.7622	0.0040
Exposed to the RMF I (5 Hz)	sea vs. SEA	A+B+C	0.7566	0.0044
Exposed to the RMF II (50 Hz)		A+B+C	0.5359	0.0725
Unexposed to the RMFs (control)		A+B+C	0.8392	0.0006
Exposed to the RMF I (5 Hz)	sec vs. SEC	A+B+C	-0.2487	0.4357
Exposed to the RMF II (50 Hz)		A+B+C	0.0541	0.8674
Unexposed to the RMFs (control)		A+B+C	0.5315	0.0754
Exposed to the RMF I (5 Hz)	sel vs. SEL	A+B+C	-0.4685	0.1245
Exposed to the RMF II (50 Hz)		A+B+C	-0.3986	0.1993

RMF – rotating magnetic field; A – Mueller-Hinton agar (MHA) non-supplemented with *trans*-anethole; B – MHA supplemented with 1% (v/v) Tween 80; C – MHA supplemented with 1% (v/v) Tween 80 and MIC₅₀ of *trans*-anethole.

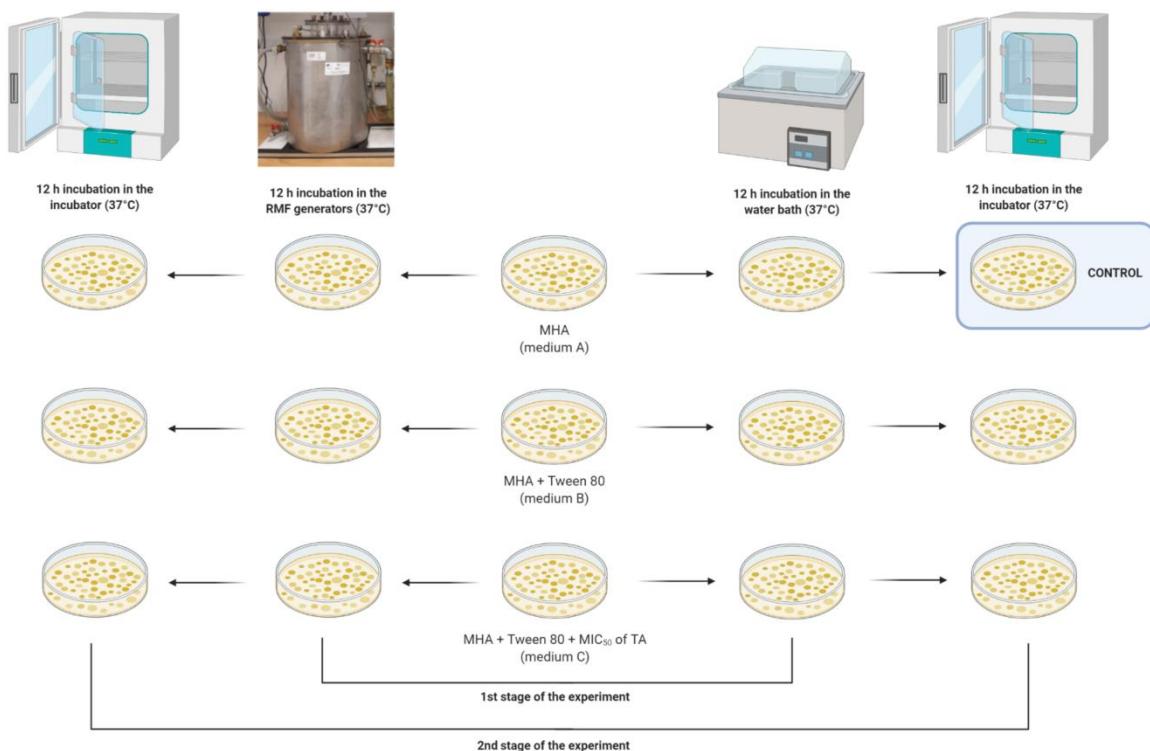


Figure S1. Schematic diagram of the experiment. Created with BioRender.com.

Table S4. Primer sequences for real-time quantitative PCR analysis.

Gene	Sequence	Amplicon length (bp)	References
<i>sea</i>	F: 5'-CAG CAT ACT ATA TTG TTT AAA GGC-3' R: 5'-CCT CTG AAC CTT CCC ATC-3'	400	[1]
<i>sec</i>	F: 5'-CTC AAG AAC TAG ACA TAA AAG CTA GG-3' R: 5'-TCA AAA TCG GAT TAA CAT TAT CC-3'	271	[1]
<i>sel</i>	F: 5'-TAA CGG CGA TGT AGG TCC AGG-3' R: 5'-CAT CTA TTT CTT GTG CGG TAA C-3'	383	[1]
<i>agrA</i>	F: 5'-CCT CGC AAC TGA TAA TCC TTA TG-3' R: 5'-ACG AAT TTC ACT GCC TAA TTT GA-3'	127	[2]
<i>hld</i>	F: 5'-TAA GGA AGG AGT GAT TTC AAT GG-3' R: 5'-GTG AAT TTG TTC ACT GTG TCG AT-3'	90	[2]
<i>rot</i>	F: 5'-TGC AGT ATT TCA ACC ACA CAC-3' R: 5'-GTA TCG TTA ATG CGC CAG T-3'	140	[2]

References

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- Schubert, J.; Podkowik, M.; Bystroń, J.; Bania, J. Production of staphylococcal enterotoxins D and R in milk and meat juice by *Staphylococcus aureus* strains. *Foodborne Pathog. Dis.* **2017**, *14*, 223–230, doi:10.1089/fpd.2016.2210.