

## Article

# Trans-Cinnamaldehyde Attenuates *Enterococcus faecalis* Virulence and Inhibits Biofilm Formation

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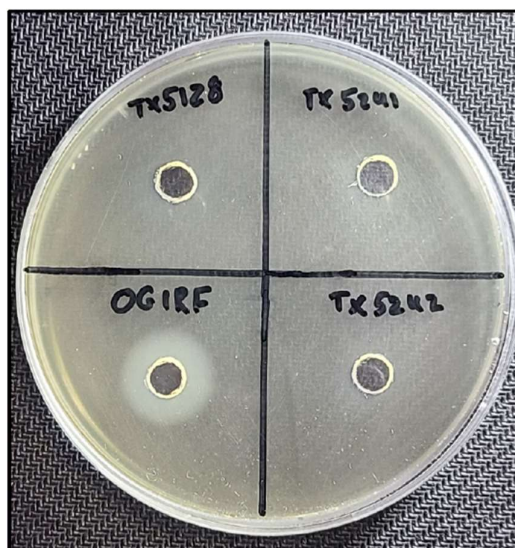
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**Table S1.** Sequence of primers used in the qRT-PCR analysis.

Gene	Sequence (5'-3')	Function	References
23S rRNA	F- CCTATCGGCCTCGGCTTAG R- AGCGAAAGACAGGTGAGAATCC	Housekeeping gene	[1]
<i>fsrB</i>	F- TGCTCAAAAAGCAAAGCCTTATAA R- GATGACGAGACCGTAGAGTATTACTGAA	Processing of a peptide precursor to generate GBAP *	[1]
<i>fsrC</i>	F- GCTTATTTGGAAGAACAACGTATCAA R- CGAAACATCGCTAGCTCTTCGT	Histidine kinase sensor of the Fsr quorum sensing system	[1]
<i>gelE</i>	F- CGGAACATACTGCCGGTTTAGA R- TGGATTAGATGCACCCGAAAT	Production of an extracellular protease involved in biofilm formation and degradation of host tissues	[1]
<i>luxS</i>	F- TGCAGAGACTGCTGGAACAACCT R- GGGTTGCCGCACTGGTTTTATATGA	Encodes a metalloenzyme involved in AI-2 production	This study
<i>ftsZ</i>	F- CCGTCAAAACAAGACAAGCGG R- TCCCAATCGCCAAAAGCACT	Cell division	[2]

\* GBAP: Gelatinase Biosynthesis Activating Pheromone, the peptide autoinducer of the Fsr-quorum sensing system in *E. faecalis*.



**Figure S1.** Extracellular protease activity of the wild-type OG1RF, *gelE* (TX 5128), *fsrB* (TX 5241) and *fsrC* (TX 5242) mutant strains. The presence of opaque zone surrounding the OG1RF strain indicates positive protease activity, while no opaque zones were observed surrounding the *fsr* or *gelE* mutants, which indicate negative protease activity.

## References

1. Shepard, B.D.; Gilmore, M.S. Differential Expression of Virulence-Related Genes in *Enterococcus faecalis* in Response to Biological Cues in Serum and Urine. *Infect. Immun.* **2002**, *70*, 4344–4352, doi:10.1128/iai.70.8.4344-4352.2002.
2. He, Z.; Liang, J.; Zhou, W.; Xie, Q.; Tang, Z.; Ma, R.; Huang, Z. Effect of the quorum-sensing luxS gene on biofilm formation by *Enterococcus faecalis*. *Eur. J. Oral Sci.* **2016**, *124*, 234–240, doi:10.1111/eos.12269.