

## Significance and impact of the study

The novelty of this work is related to the combination of antimicrobial components with different volatility and to the study of the antimicrobial activity in the gas phase.

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The components have been previously singularly tested as antimicrobial agents in the liquid phase at direct contact with the microbes. Here they are used as a mixture with the aim to sanitize small environments where the vapour phase can diffuse avoiding microbes' growth. This study proposes a new approach in the management of waste during the storage in the apartments by inhibiting bacterial proliferation in the waste bucket.

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