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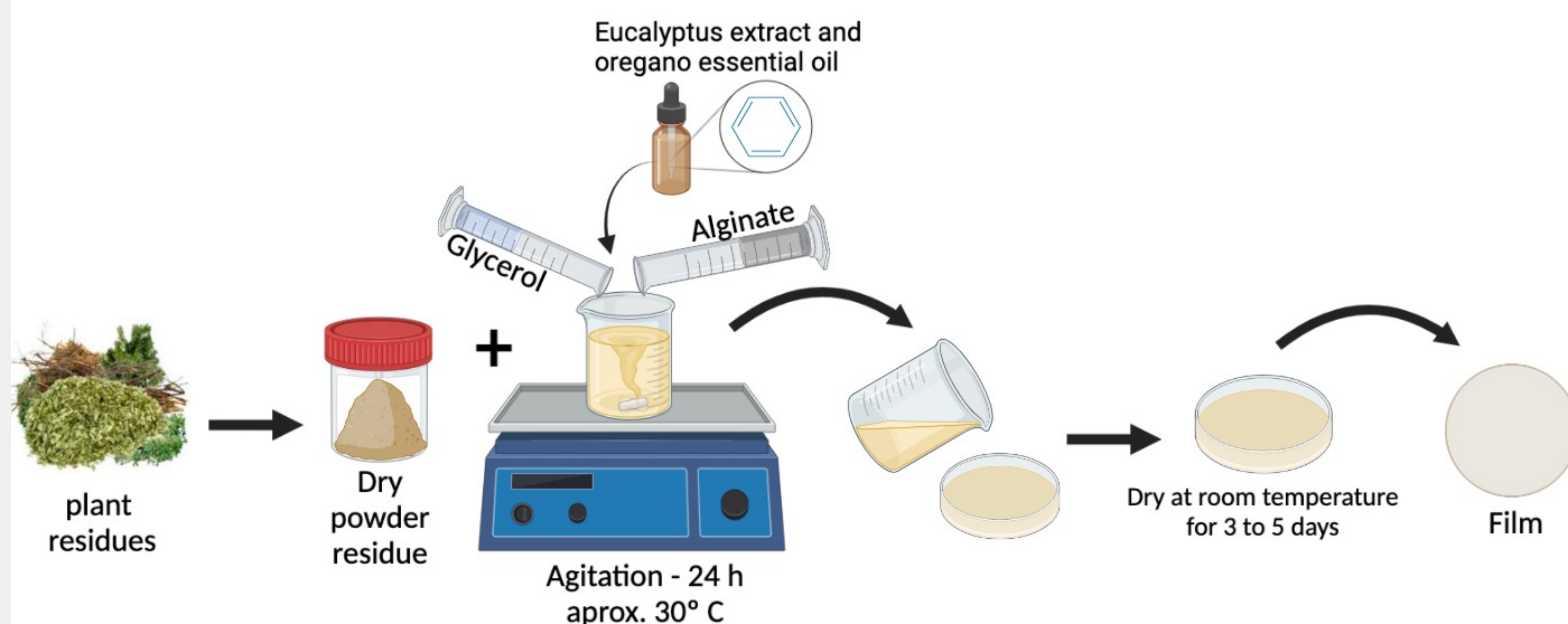
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Background

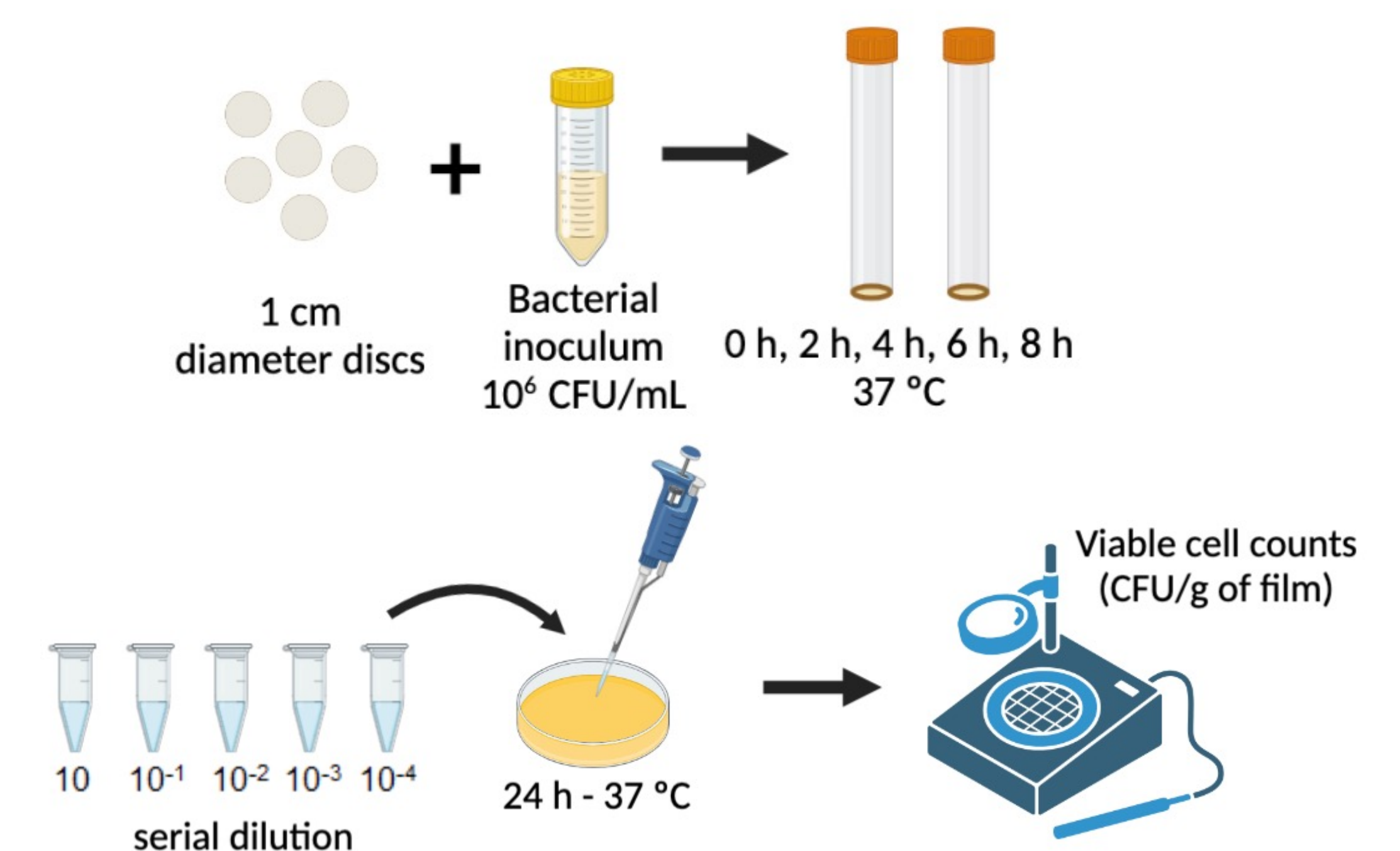
Plant agro-industrial residue have been studied as sources of polymeric matrices to develop films. The objective of this work was to develop films using plant biomass residue and evaluate the antimicrobial activity after addition of the different antimicrobials.

Methods

Film's development

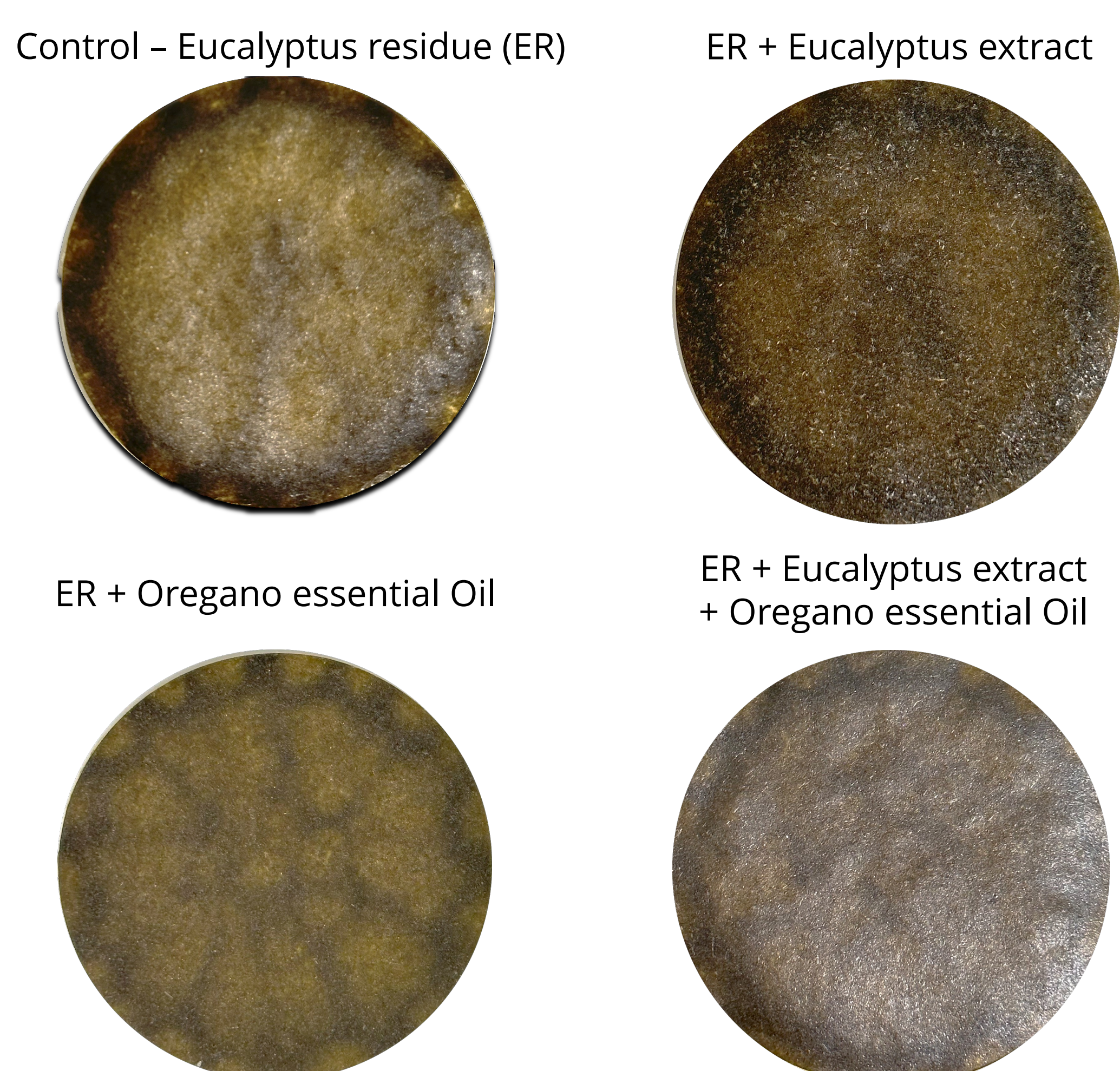


Films antimicrobial activity

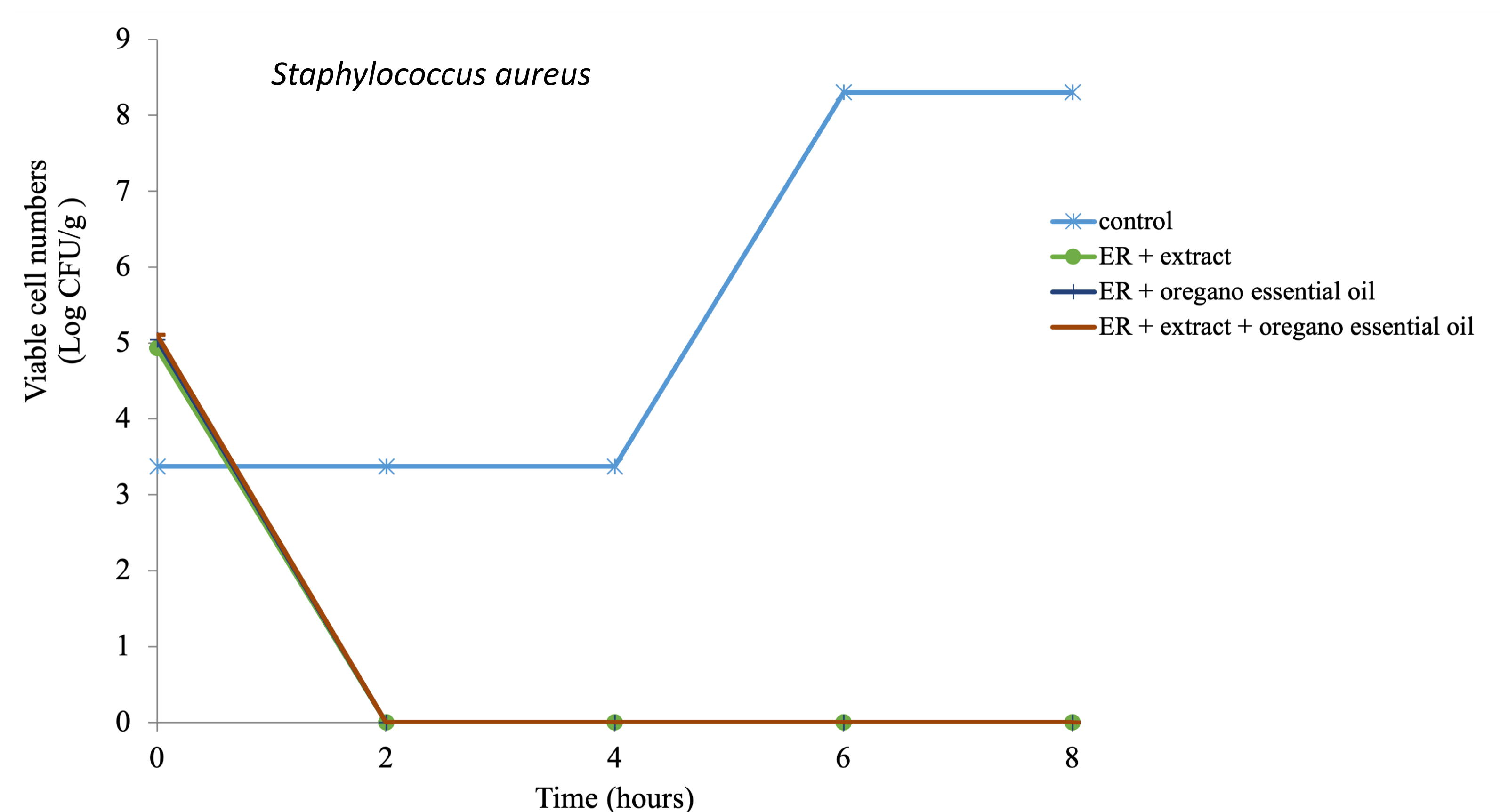


Results

Obtained films



Films antimicrobial activity



Conclusions

- The developed films can be considered potential solutions to be applied as biodegradable active packaging. However, more studies are needed to support this hypothesis
- In addition, the use of these residues for film's production is a more sustainable alternative to the environment and even adds value to plant agro-industrial wastes.

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