

SUPPLEMENTARY MATERIALS

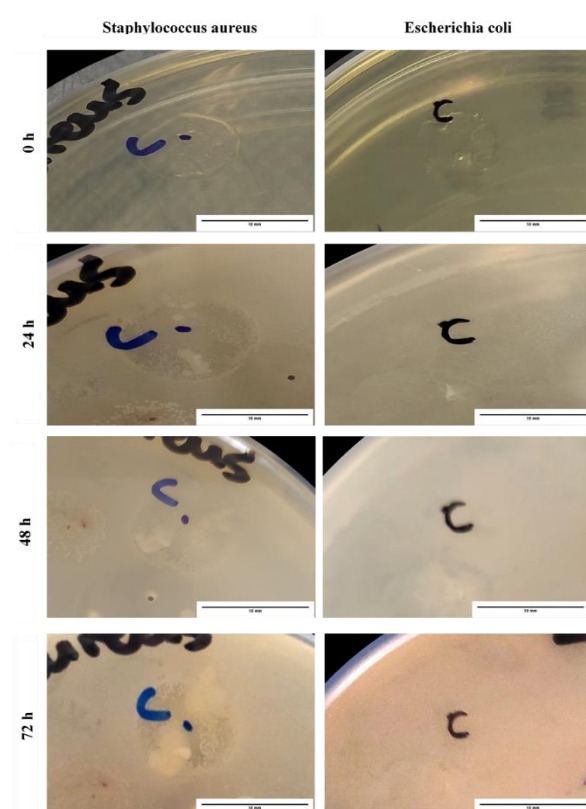
# Gelatin-Based Biofilms with $\text{Fe}_x\text{O}_y$ -NPs Incorporated for Antioxidant and Antimicrobial Applications

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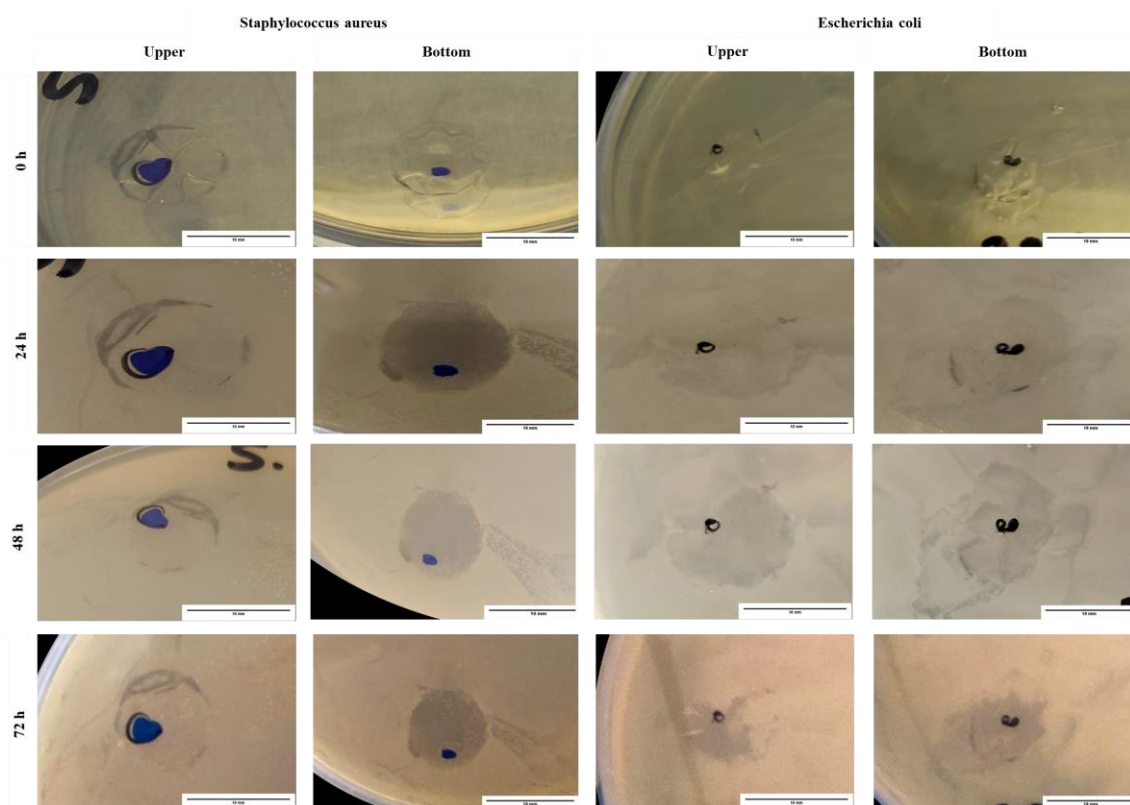
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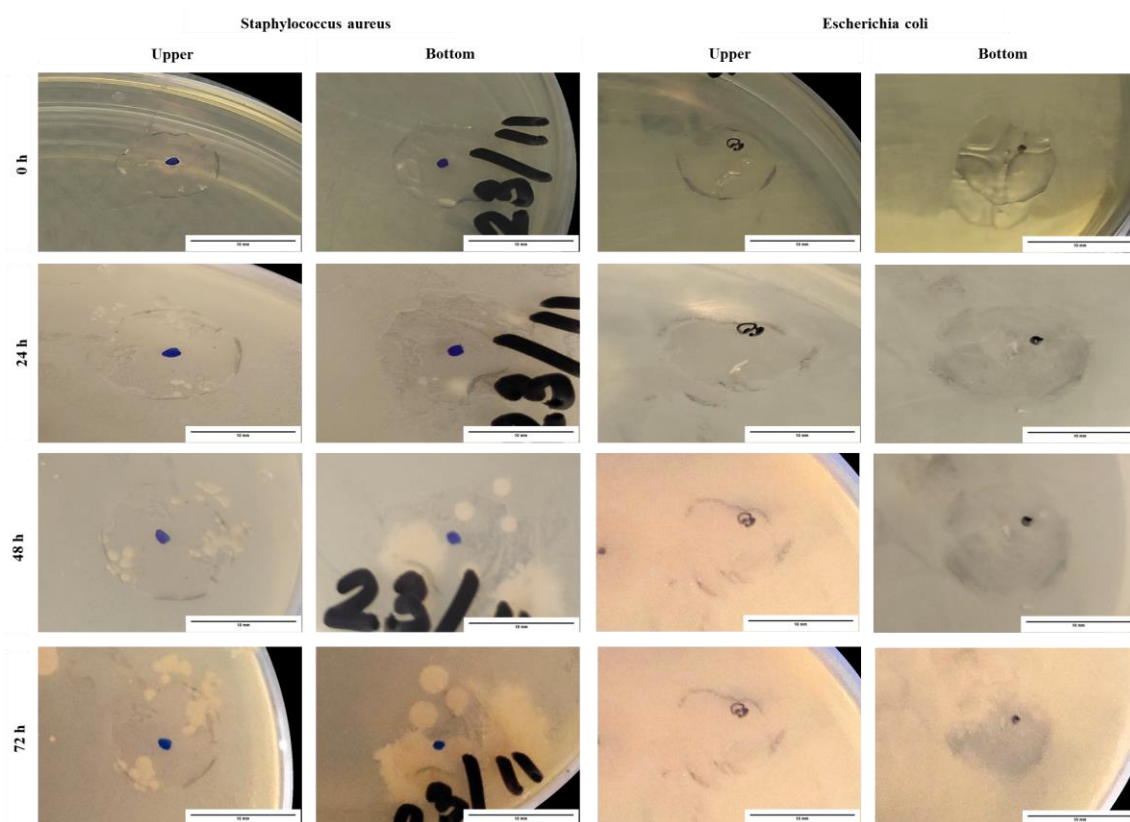
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**Figure S1:** Image of inhibition area over time of Neat gelatin-based biofilm without  $\text{Fe}_x\text{O}_y$ -NPs incorporated.



**Figure S2:** Image of inhibition area over time of gelatin-based biofilm with 1.0 % GS Fe<sub>3</sub>O<sub>4</sub>-NPs incorporated.



**Figure S3:** Image of inhibition area over time of gelatin-based biofilm with 1.0 % CS Fe<sub>3</sub>O<sub>4</sub>-NPs incorporated.