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Antibacterial graphene oxide coatings on polymer substrate

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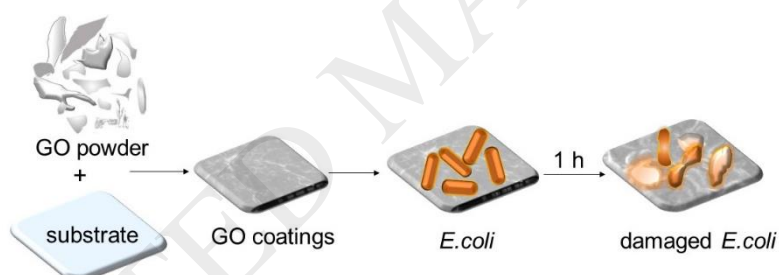
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Graphical Abstract

E. coli was damaged on GO coatings surface which had no sharp edges.



Highlights

- Antibacterial GO coatings on modified silicone rubber surface were prepared.
- The coatings presented edge-free morphology, differing from GO nanosheets precursor.
- The flat and featureless coatings showed obvious antibacterial activity.
- Oxidative stress mechanism was considered the main factor of antibacterial activity.

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