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Durable antimicrobial cotton textiles coated sonochemically with ZnO nanoparticles embedded in an in-situ enzymatically generated bioadhesive

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Highlights

- Nanoparticle coated antibacterial cotton textiles to prevent nosocomial infections
- A novel single step sono-enzymatic process for nanoparticle coating of textiles
- Gallic acid as an antibacterial agent, bioadhesive and biocompatibility enhancer
- The antibacterial efficacy is maintained even after 60 washing cycles at 75 °C

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