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Development of Antimicrobial Dressing Coated with Alginate/ Glycerol/ Tannic Acid Blend

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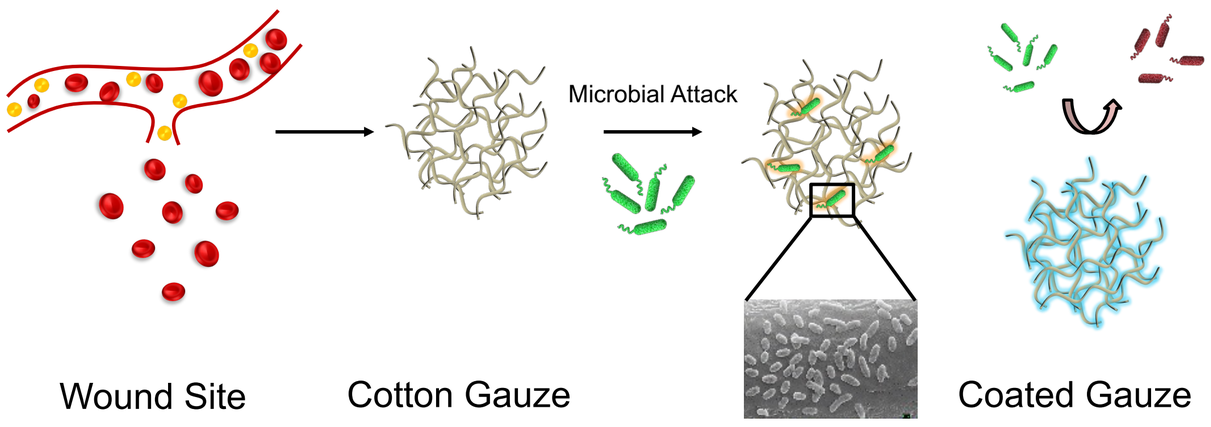
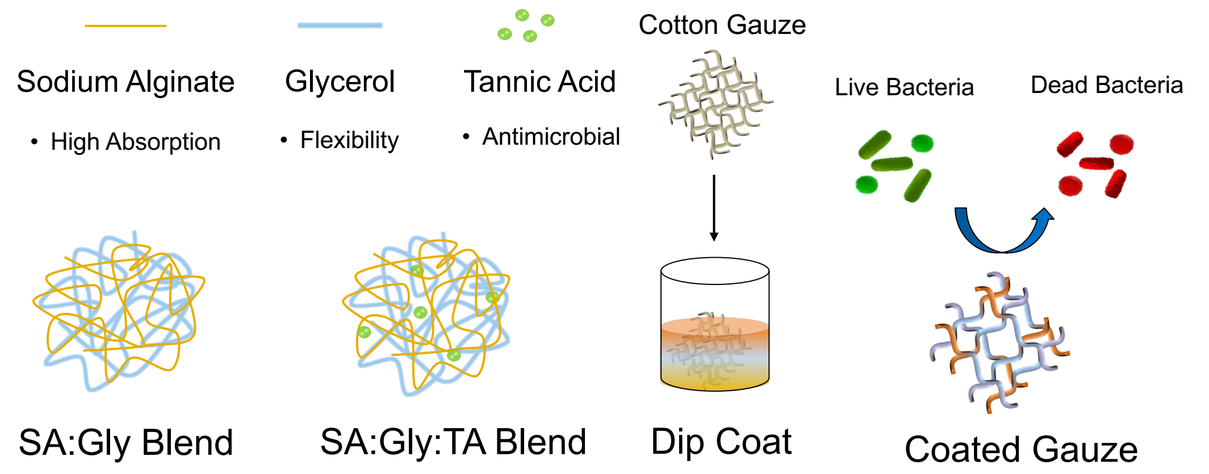
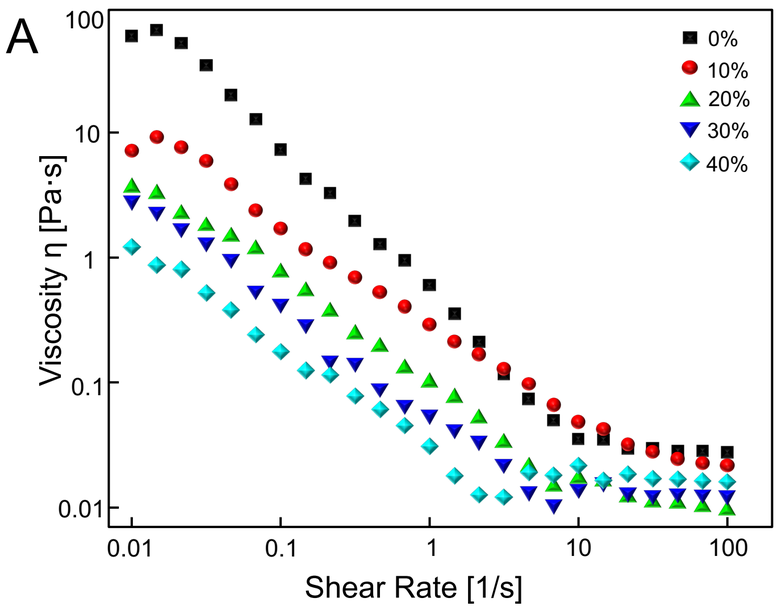
INTRODUCTION

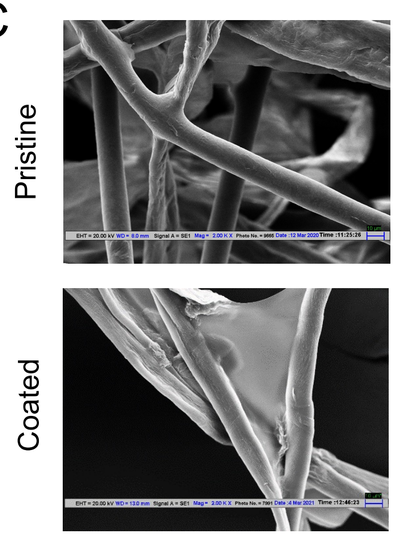


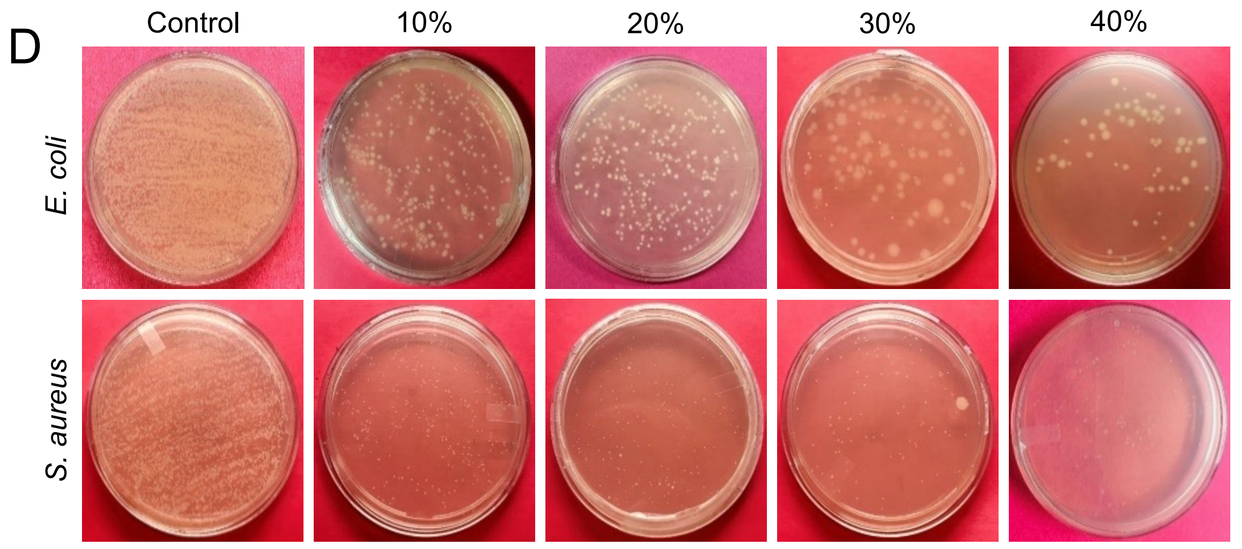
METHOD

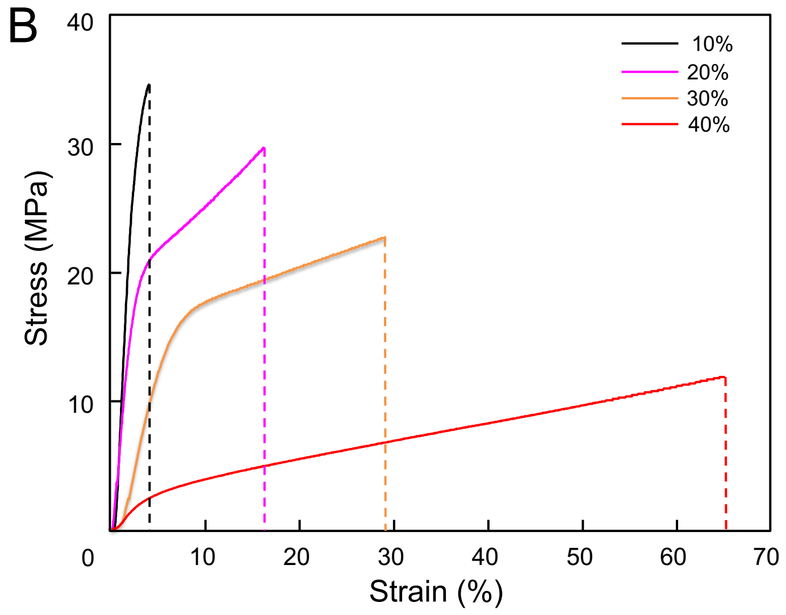


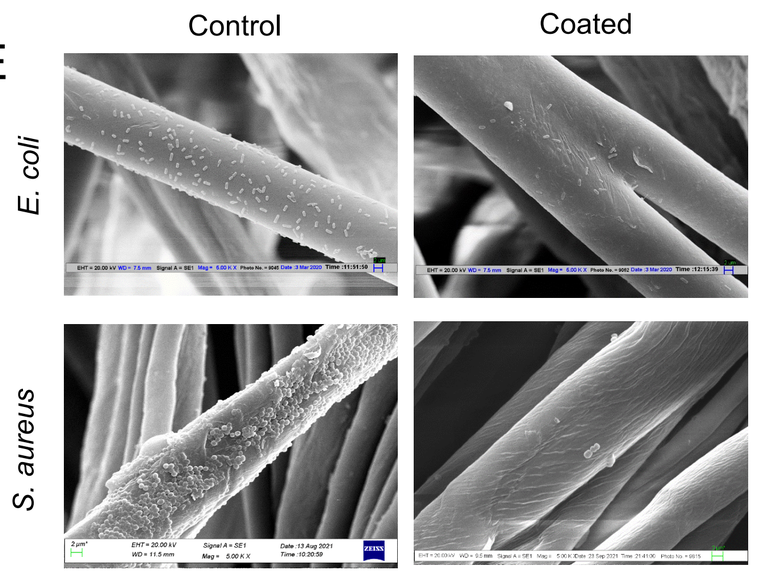
RESULTS & DISCUSSION

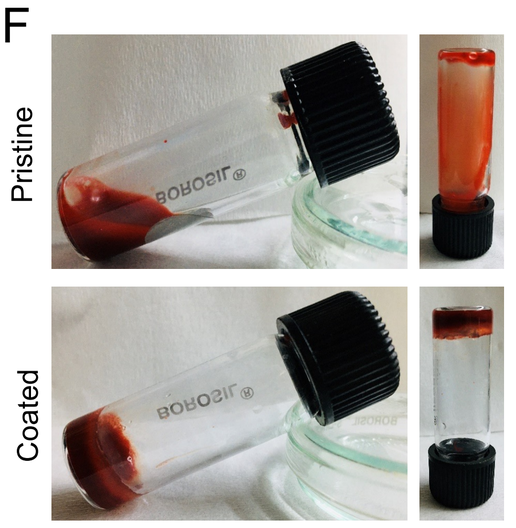


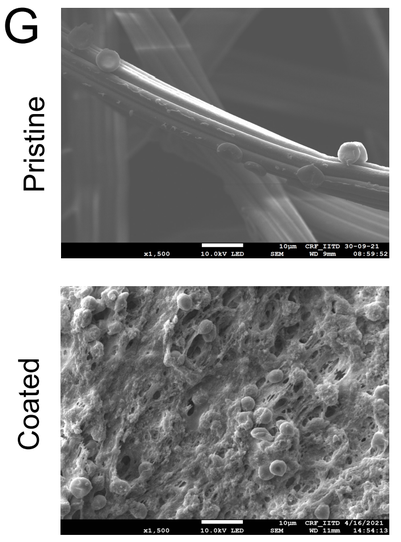












CONCLUSION

- SA based films were prepared with varying concentrations of glycerol.
- Mechanical studies indicated the enhanced flexibility of the films due to the plasticization effect of glycerol.
- Different concentrations of TA were added to the optimized blend of SA:Gly (70:30) followed by their coating on the cotton gauze.
- Antimicrobial studies indicated >95% of bacterial colony suppression against *E. coli* and *S. aureus*.
- Developed dressings were observed with the huge deposition of blood clot on the dressing surface.

REFERENCES

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3. R. Tian, *et al*. ACS Appl. Mater. Interfaces, 2018, 20, 17018–17027.