

## Electronic Supplementary Information

### **Polyvinylpyrrolidone/Cellulose Acetate (PVP/CA) Electrospun Composite Nanofibers Loaded by Glycerine and Garlic Extract with In-Vitro Antibacterial Activity and Release Behavior Test**

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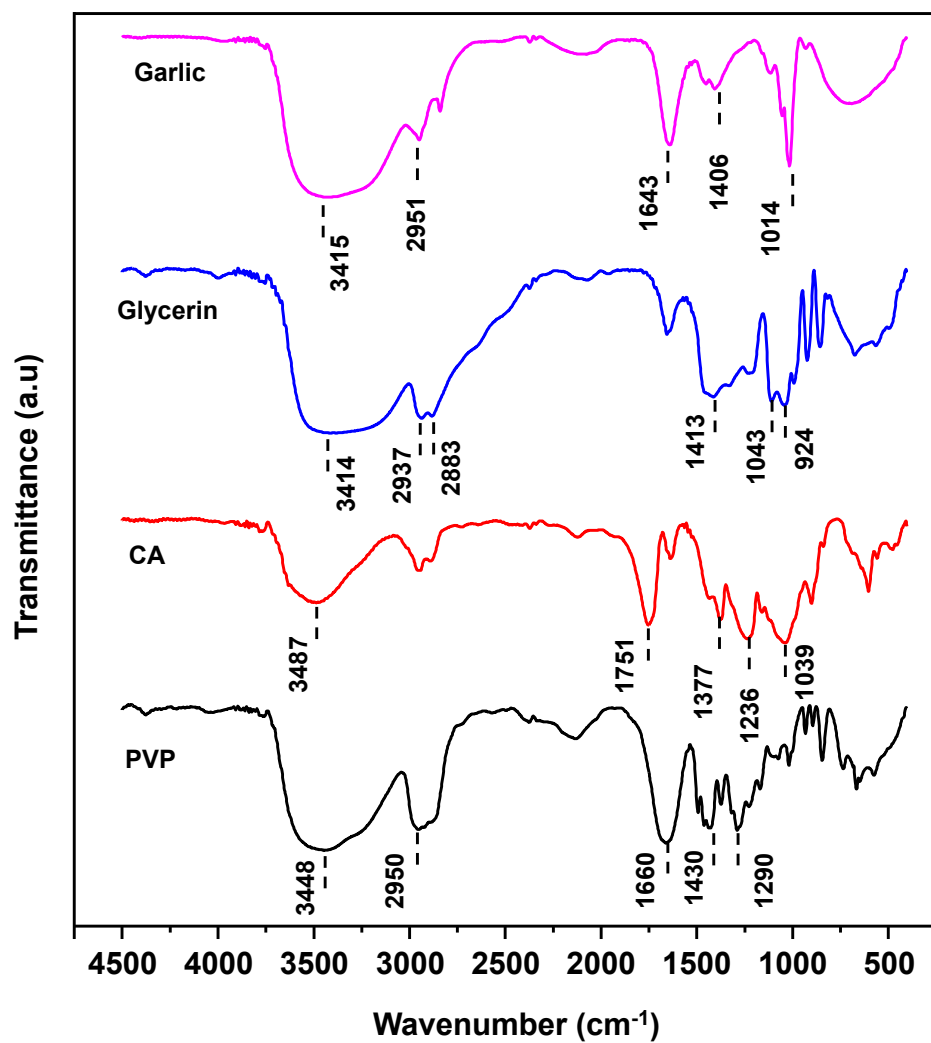
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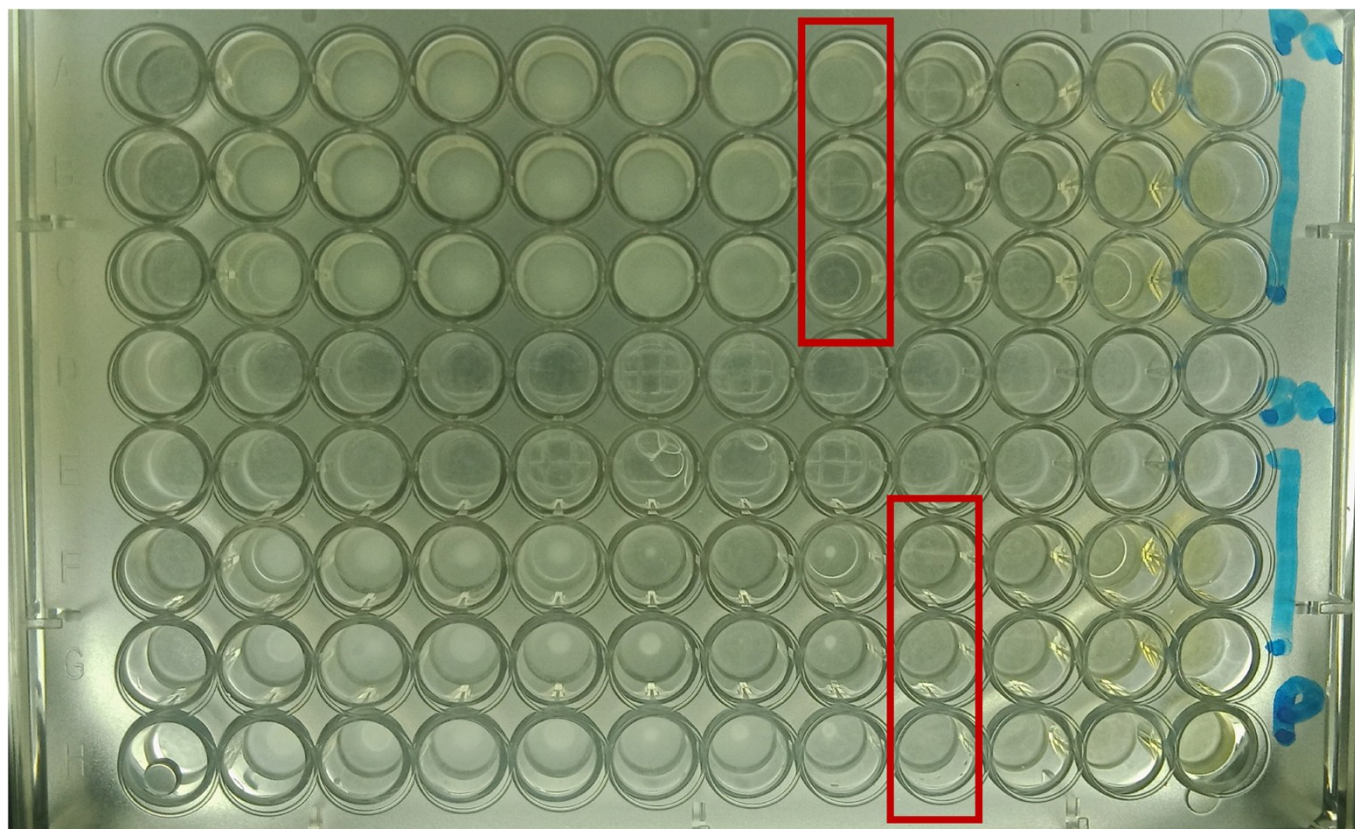
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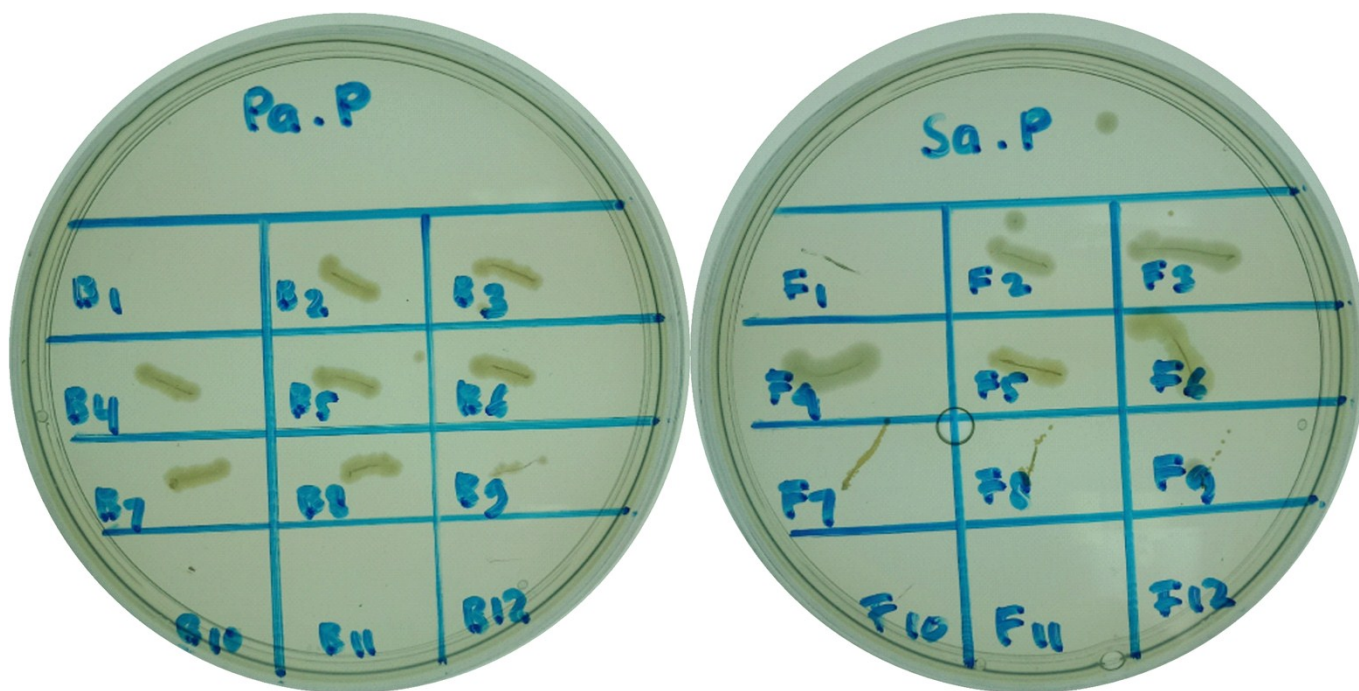
**Fig. S1** FTIR spectra of PVP powder, CA powder, Glycerin, and Garlic Extract.



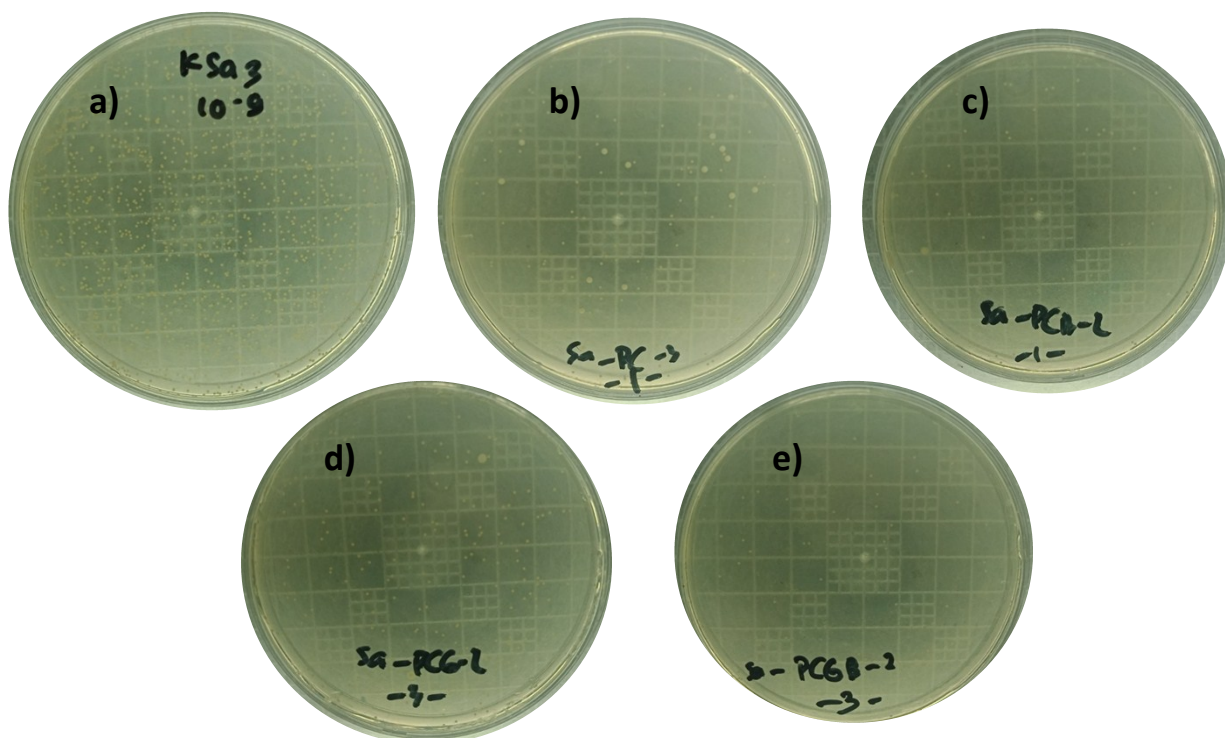
**Fig. S2** The appearance of the wells after 24 hours incubation. The words “pa” stands for *Pseudomonas Aeruginosa* while the words “Sa” refers to *Staphylococcus aureus*.



**Fig. S3** The results of scratching one use of MHB solution on the microplate onto MHA media after incubation for 24 hours. The words “pa” stands for *Pseudomonas Aeruginosa* while the words “Sa” refers to *Staphylococcus aureus*.



**Fig. S4** *S. aureus* bacterial colonies that grow after contact with the membrane for 24 hours. (a) *S. aureus* control, (b) PVP/CA, (c) PVP/CA/Glycerin; (d) PVP/CA/Garlic; (e) PVP/CA/Glycerin/Garlic.





**Fig. S5** Colonies of *P. aeruginosa* bacteria that grow after contact with membrane for 24 hours. (a) *P. aeruginosa* control, (b) PVP/CA, (c) PVP/CA/Glycerin; (d) PVP/CA/Garlic; (e) PVP/CA/Glycerin/Garlic.

