

## Supplementary Materials for

# Dual-Mode flexible surface-enhanced Raman spectroscopy-based smart tape for thiram and thiabendazole detection

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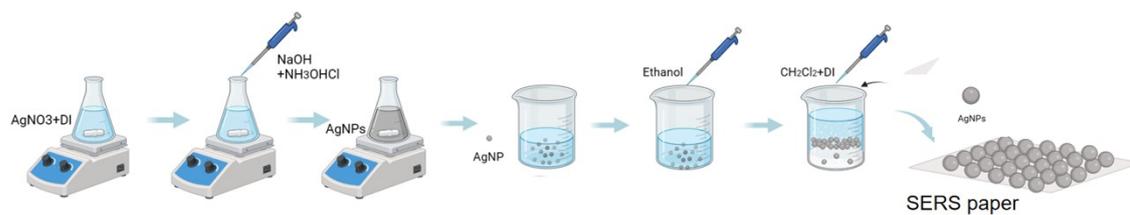


Figure S1. Schematic diagram of the three-phase liquid interface self-assembly approach.

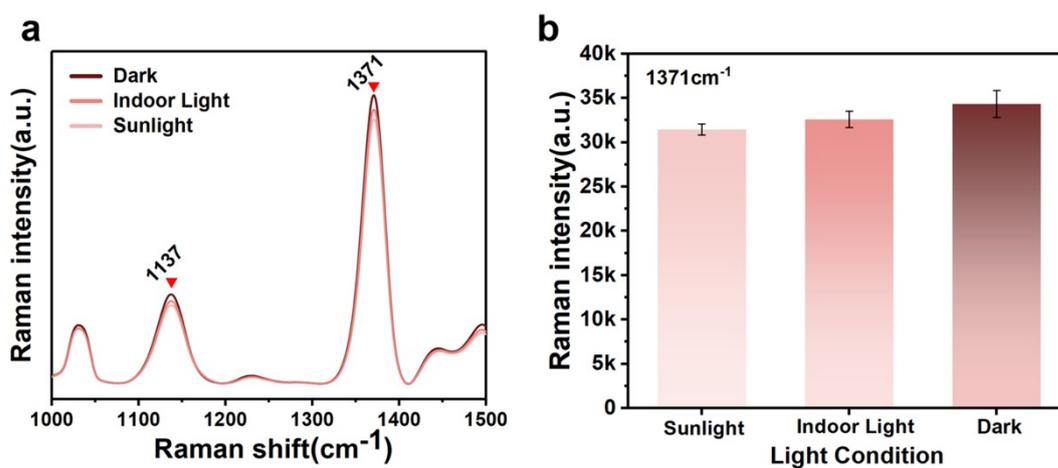


Figure S2. (a) SERS spectra of the thiram under different light conditions (dark, indoor light, and sunlight). (b) Corresponding Raman intensity of the 1371 cm<sup>-1</sup> peak under different light conditions.

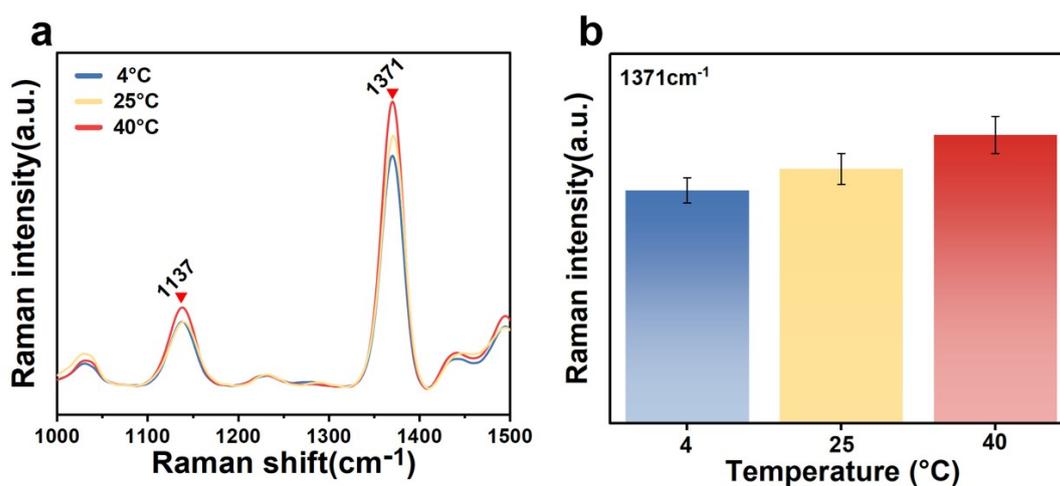


Figure S3. (a) SERS spectra of the thiram at different temperatures (4 °C, 25 °C, and 40 °C). (b) Corresponding Raman intensity of the 1371 cm<sup>-1</sup> peak under different temperatures.

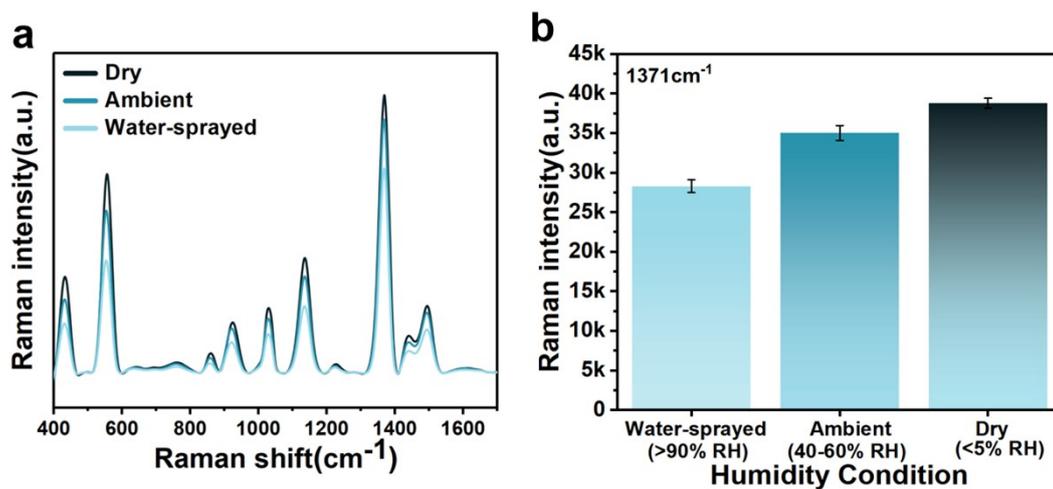


Figure S4. (a) SERS spectra of the thiram under different humidity conditions (dry, ambient, and water-sprayed). (b) Corresponding Raman intensity of the  $1371\text{cm}^{-1}$  peak under different humidity conditions.

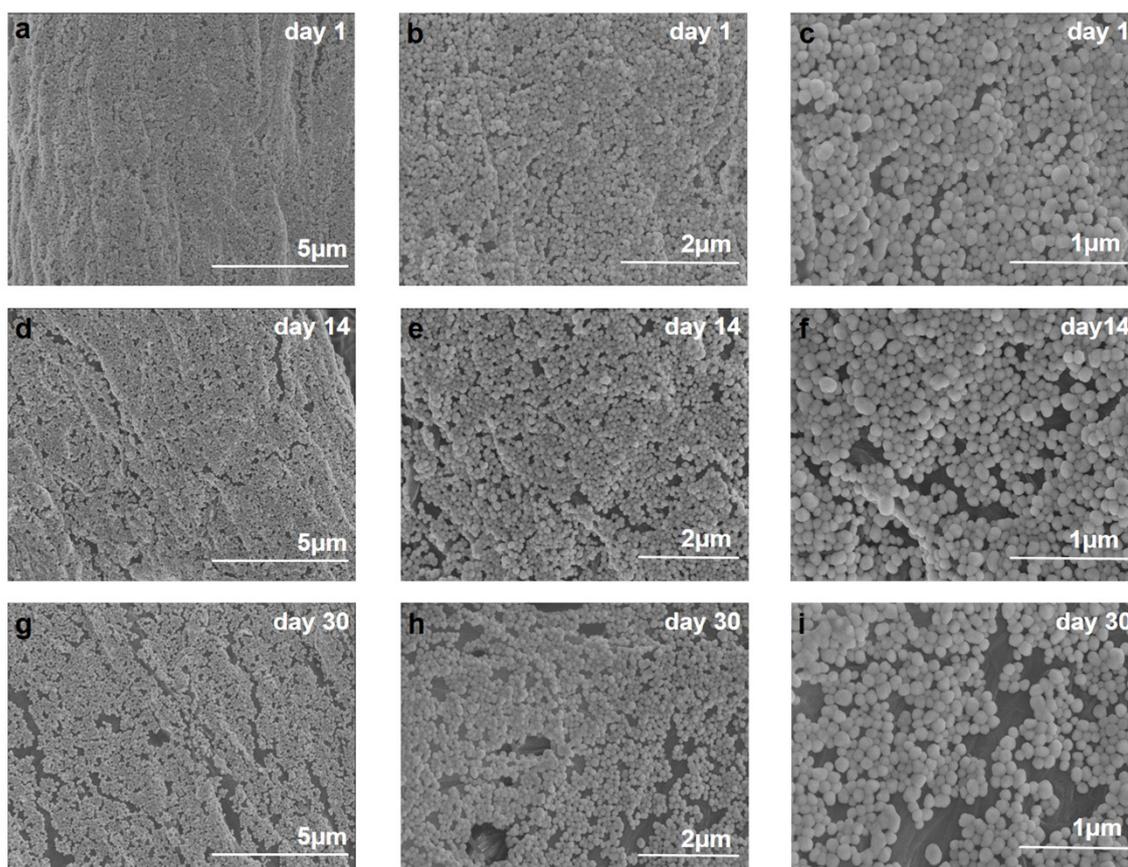


Figure S5. SEM images of AgNPs on paper substrate after different storage times.