

A SERS Composite Hydrogel Device for Point-of-Care Analysis of Neurotransmitter in Whole Blood

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1. Calculation of the SERS enhancement factor

To calculate the SERS enhancement factor of the substrate, the Raman and SERS spectra of 10^{-4} M and 10^{-7} M R6G solution were acquired, respectively. As shown in Fig.S1, the SERS and Raman intensity ratio is around 10^4 . Hence, the SERS enhancement factor is estimated to be 10^7 .

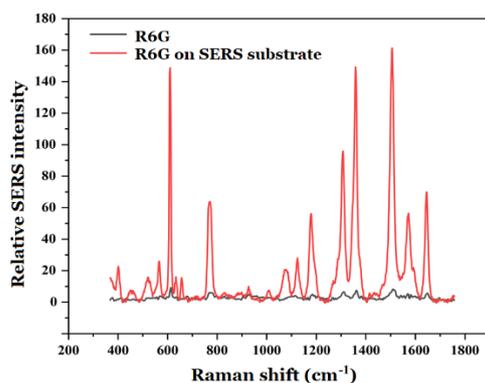


Figure S1. Raman and SERS spectra of R6G.