

Electronic supplementary information

Inkjet-Printed Paper-Based SERS Dipsticks and Swabs for Trace Chemical Detection

Wei W. Yu and Ian M. White^a

Fischell Department of Bioengineering, University of Maryland, College Park, MD 20742, USA.

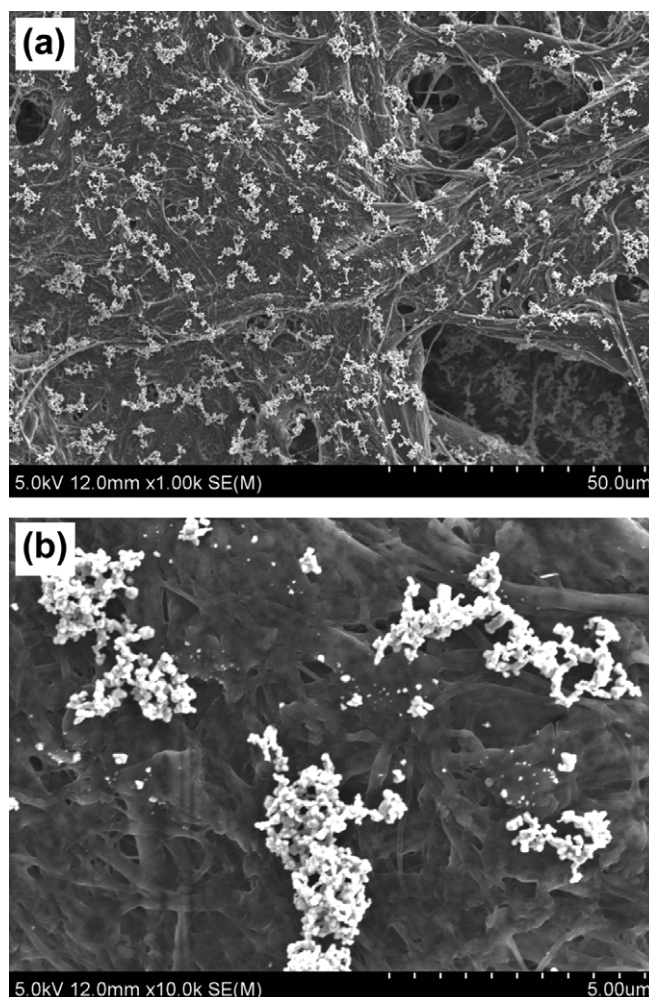


Figure S-1. (a) SEM image showing the distribution of clusters of silver nanoparticles on the cellulose matrix. (b) Higher resolution SEM image showing the aggregation of nanoparticles within a cluster

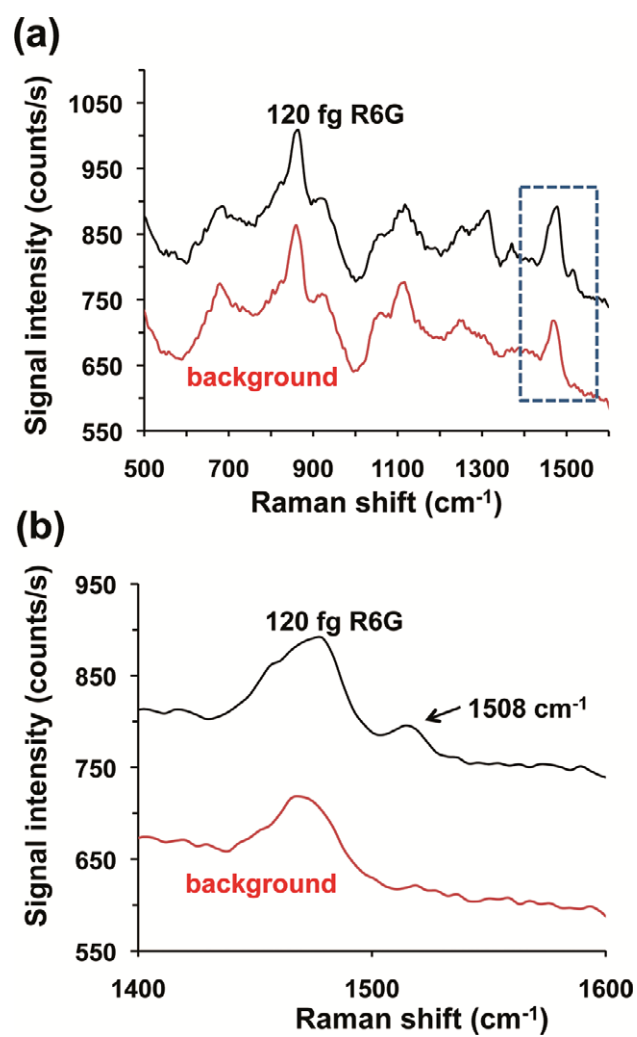


Figure S-2. (a) Comparison of the SERS signal from 120 femtograms of R6G with the background signal of the paper SERS substrate. (b) Magnified view of selected portion of the SERS spectra showing the 1508 cm⁻¹ peak. Note: The background spectrum has been shifted for clarity.