

Electronic Supplementary Information

Riboflavin based conjugated biomolecule for ultrasensitive detection of Nitrophenols

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XRD analysis: RC shows a sharp crystalline peak at $2\theta = 18^\circ$.

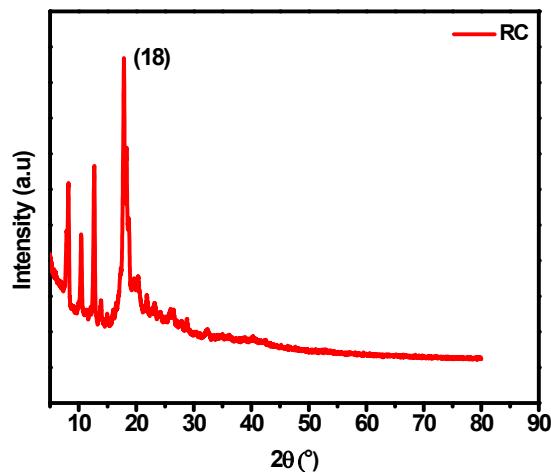


Figure S1: XRD spectra of RC

UV studies: RC shows strong absorption peak at 445 nm.

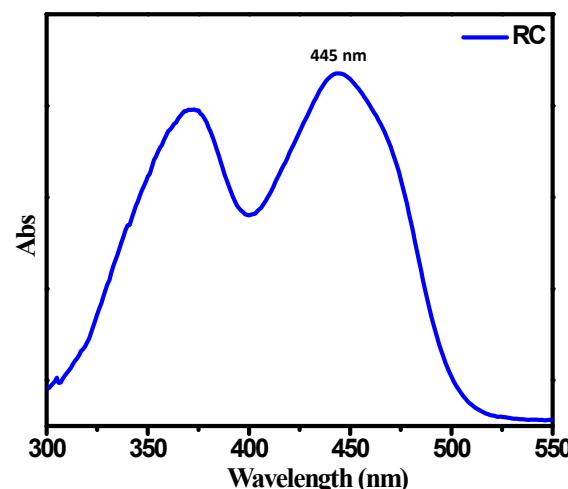


Figure S2: UV-vis spectra of RC.

Interference Study: Interference study on RC+PA

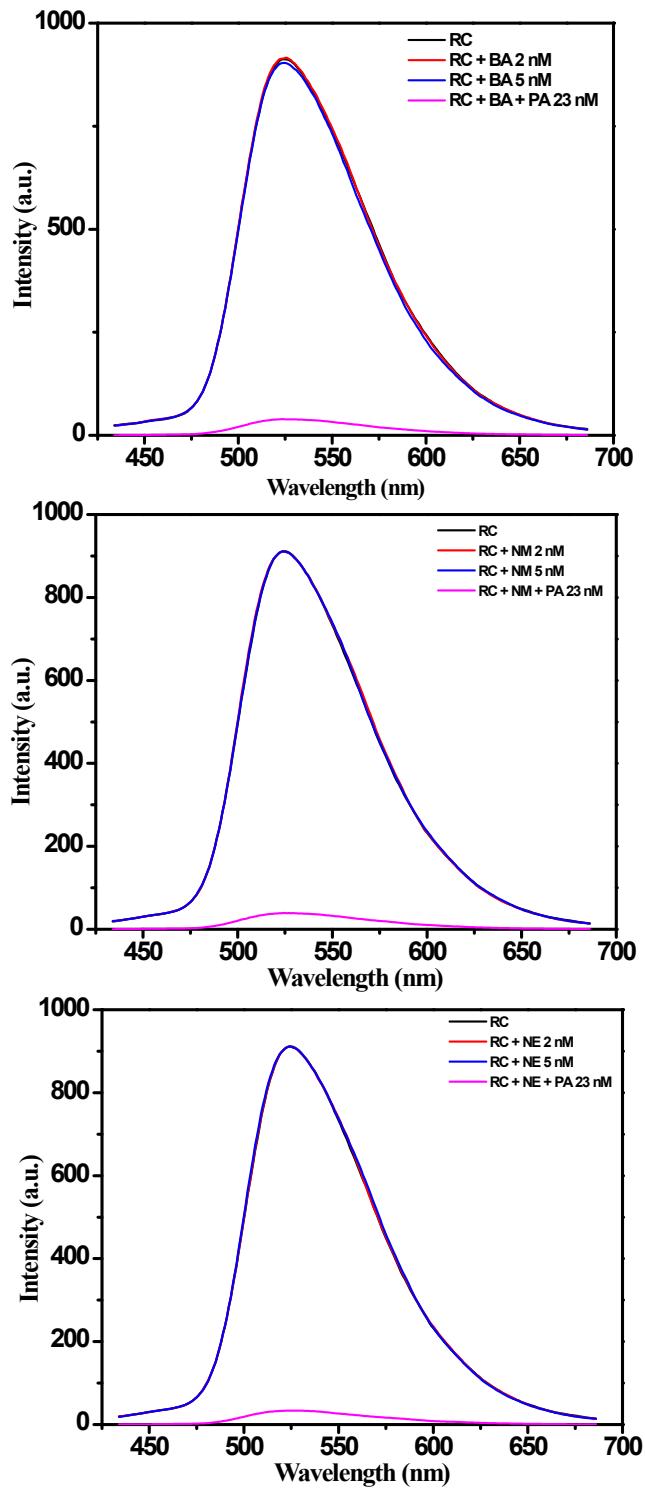


Figure S3: Interference of Benzoic acid, Nitromethane and Nitroethane on RC+PA

UV-Vis Spectra: UV-vis of RC before and after addition of PA

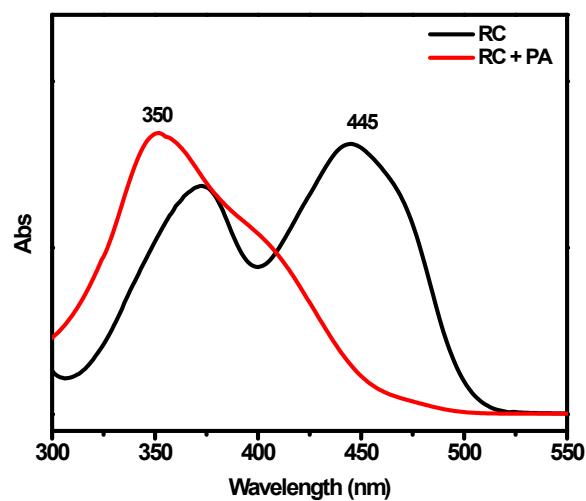


Figure S4: UV-vis spectra of RC before and after addition of PA

DLS Study: Zeta potential of PA, RC and RC after exposure to PA

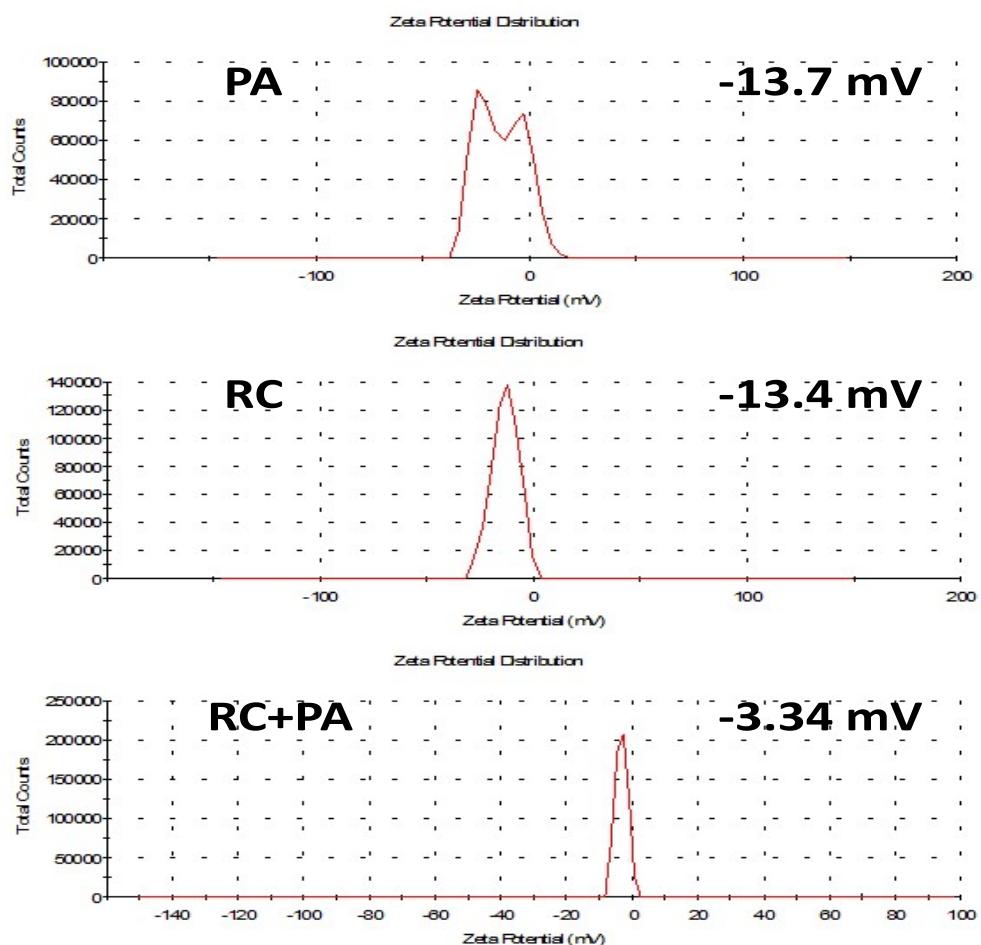


Figure S5: Zeta potential of PA, RC and RC+PA