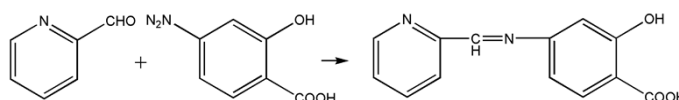


Supplementary Information for

Reversible multi-control fluorescent switch and molecular logic gate based on selective recognition of Fe³⁺ and its application to multiplex detection

Yan Liang, Weizhou Liu, Hui Zhang, Fang Chen *

College of Chemistry and Chemical Engineering, Huazhong University of Science and Technology, Wuhan 430074, China



Scheme S1: Scheme 1-Synthesis of PA

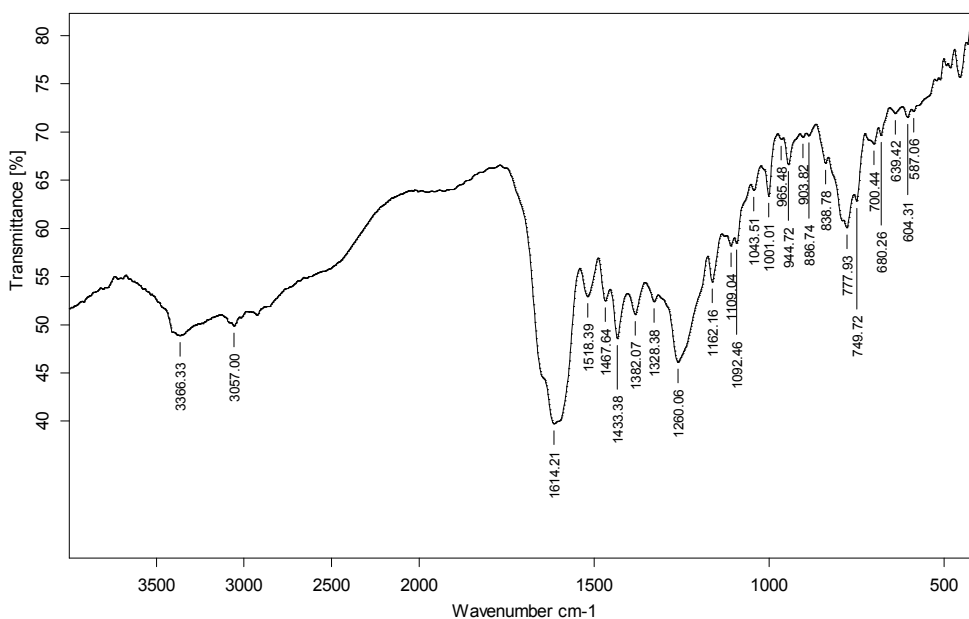


Figure S1: FT-IR of chemical PA

FT-IR(KBr): C=N- 1614 cm⁻¹, OH- 3366 cm⁻¹, -C=C- 1467.64cm⁻¹.

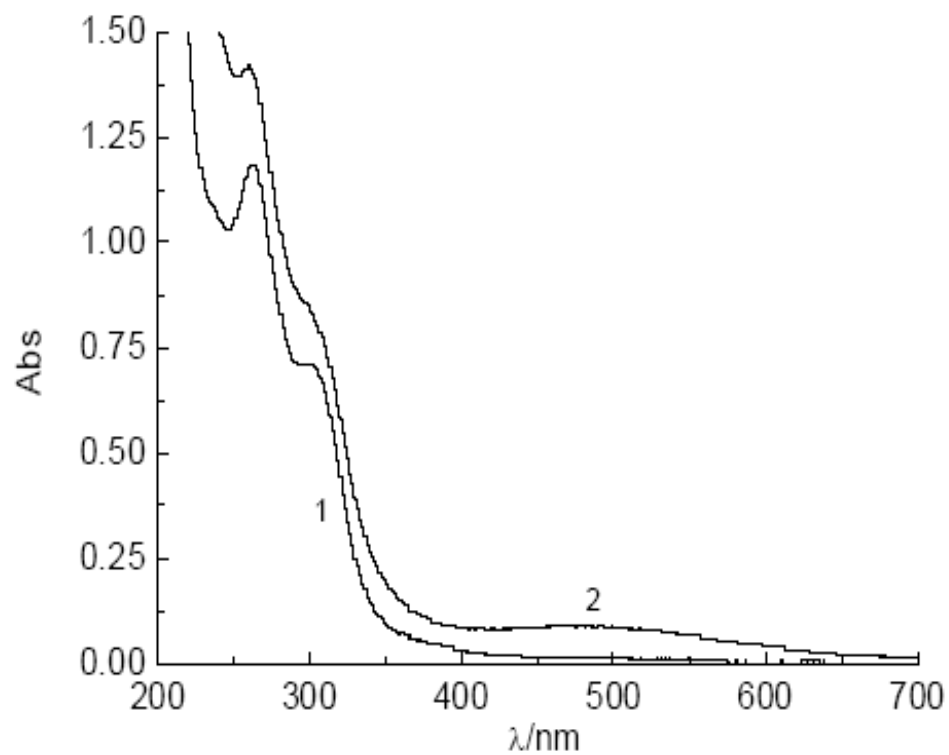


Figure S2 UV-Vis spectra of PA (Fig.S2) in the (1)absence and (2)presence of Fe^{3+} .