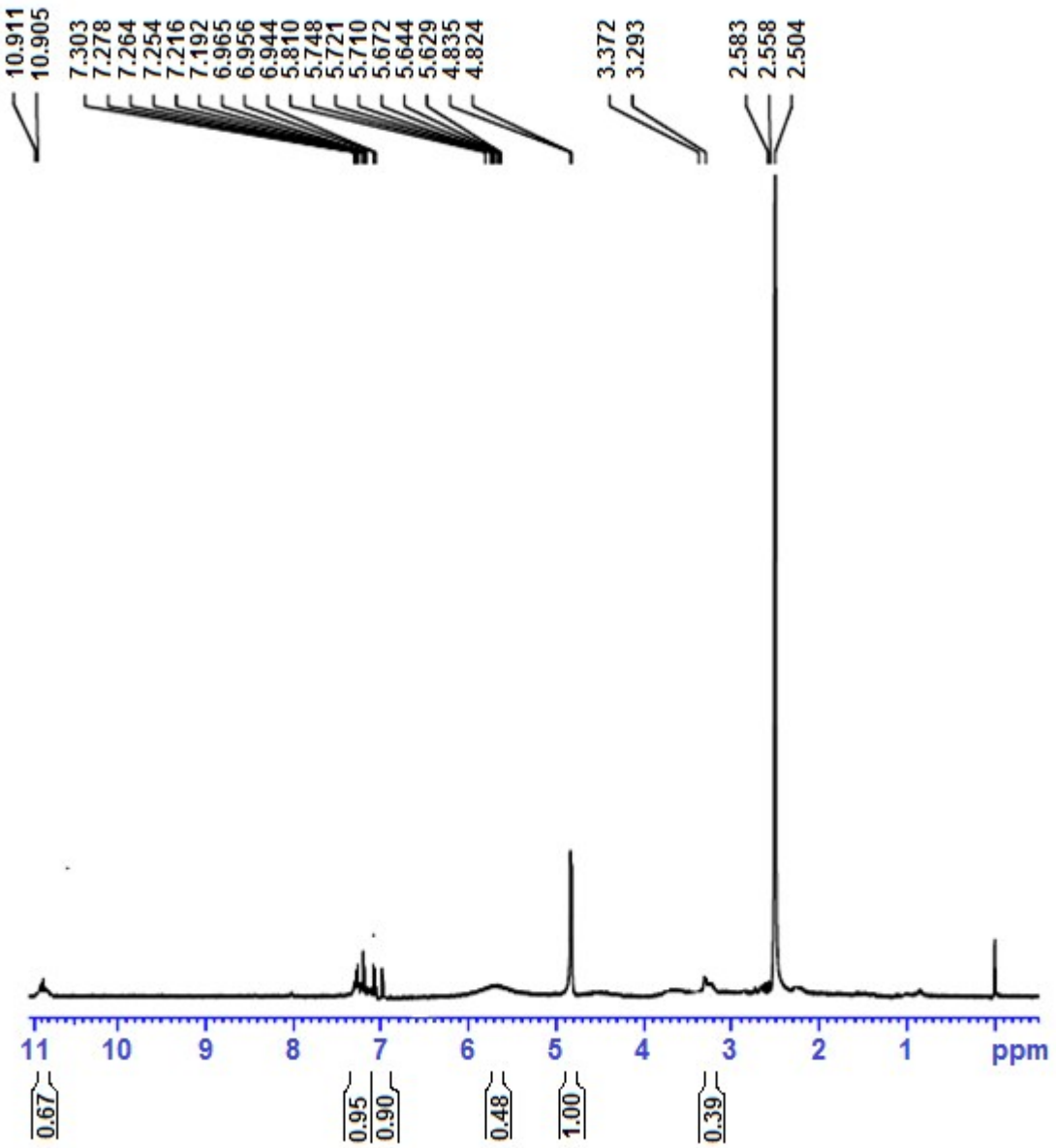
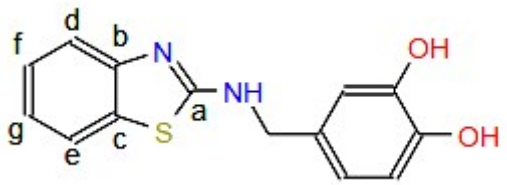
Electronic Supplementary Material (ESI) for RSC Advances.

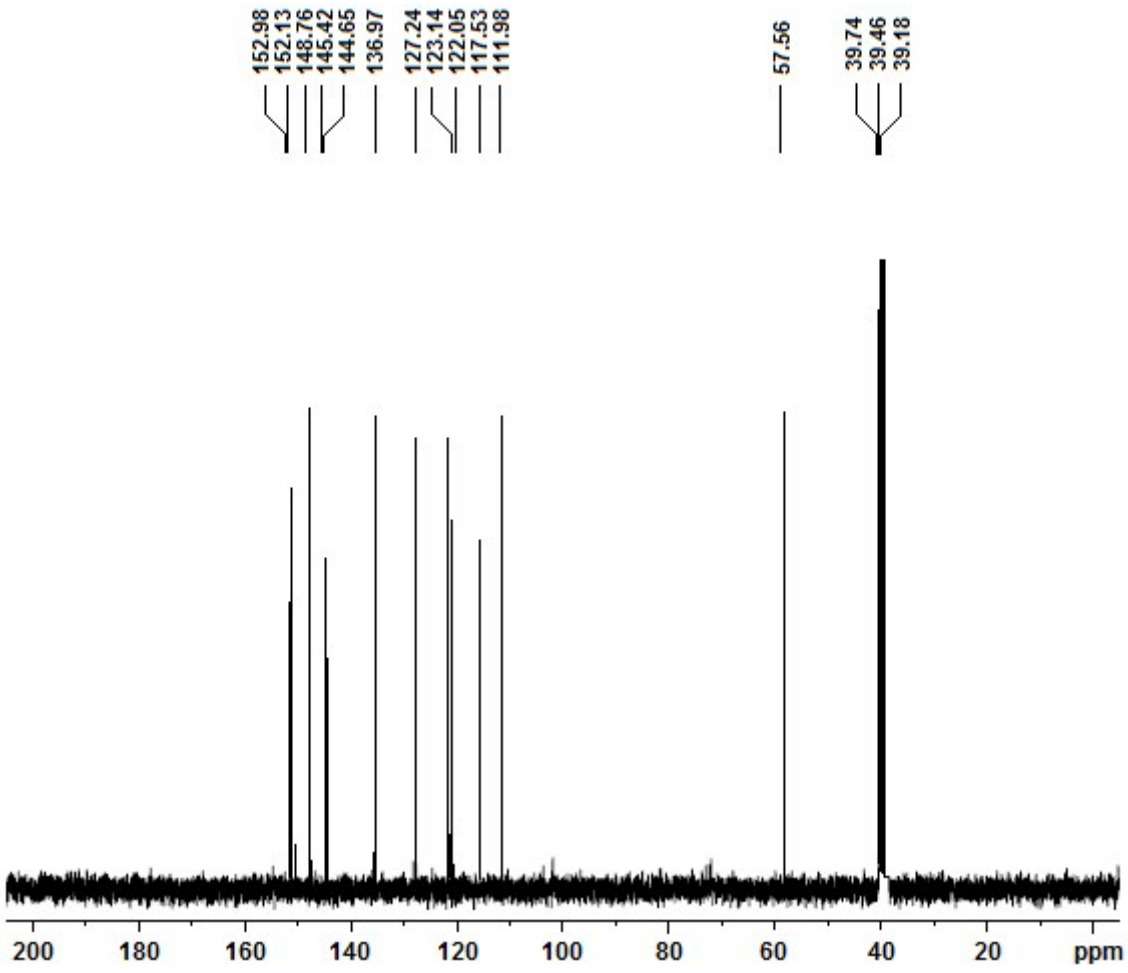
Supporting Information



SI1 (a) H^1 NMR Spectrum of Compound **1**.

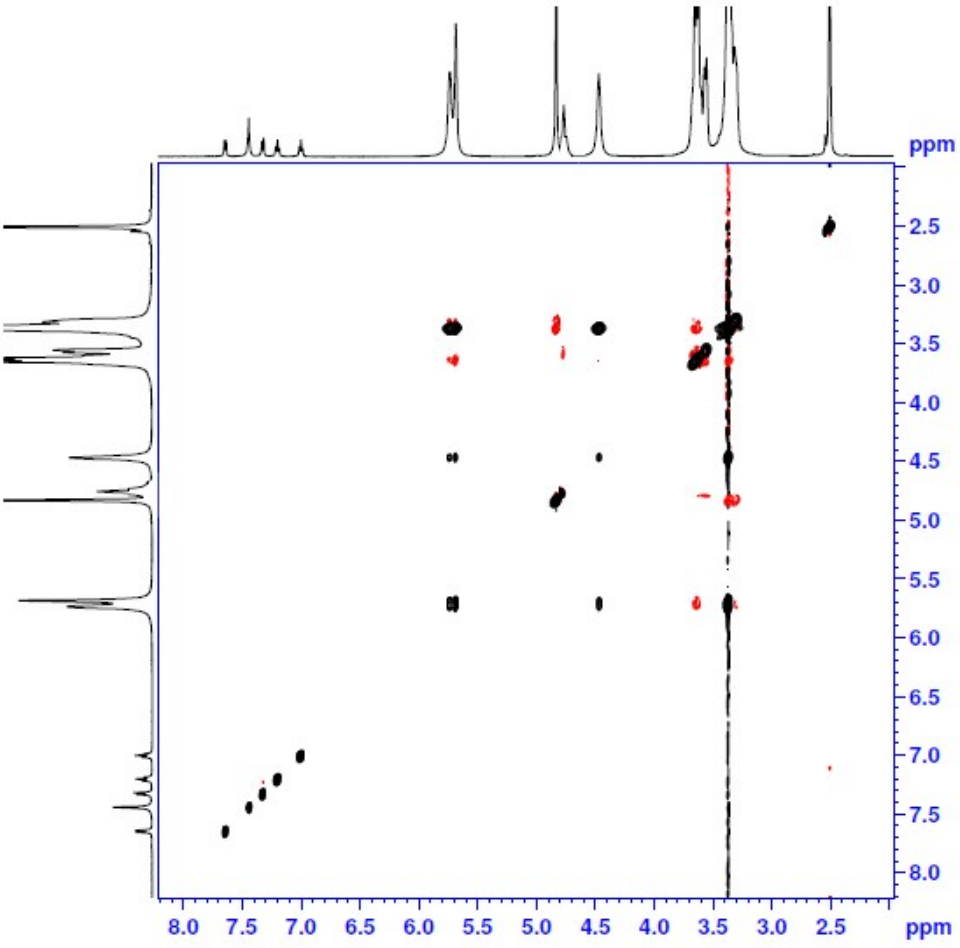


Chemical shift (ppm)	Proton
4.824	Methylene protons of the –NH–CH_2– bridge
5.672	NH proton
6.944 – 7.303	Aromatic protons
10.905 and 10.911	Phenolic OH protons

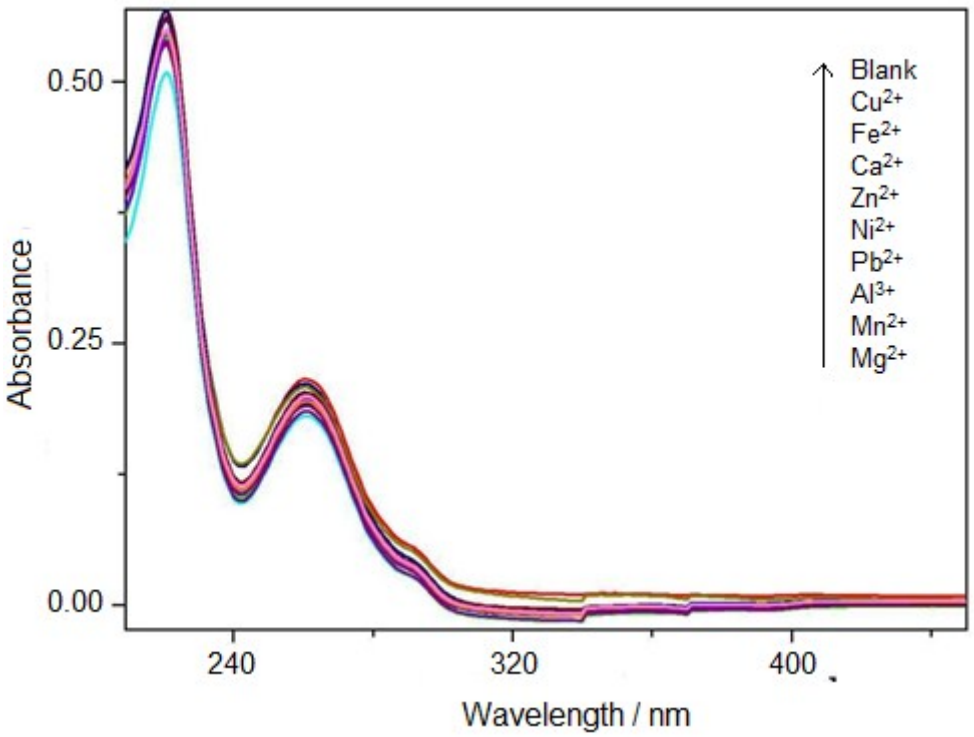


SI2. C^{13} NMR Spectrum of Compound **1**.

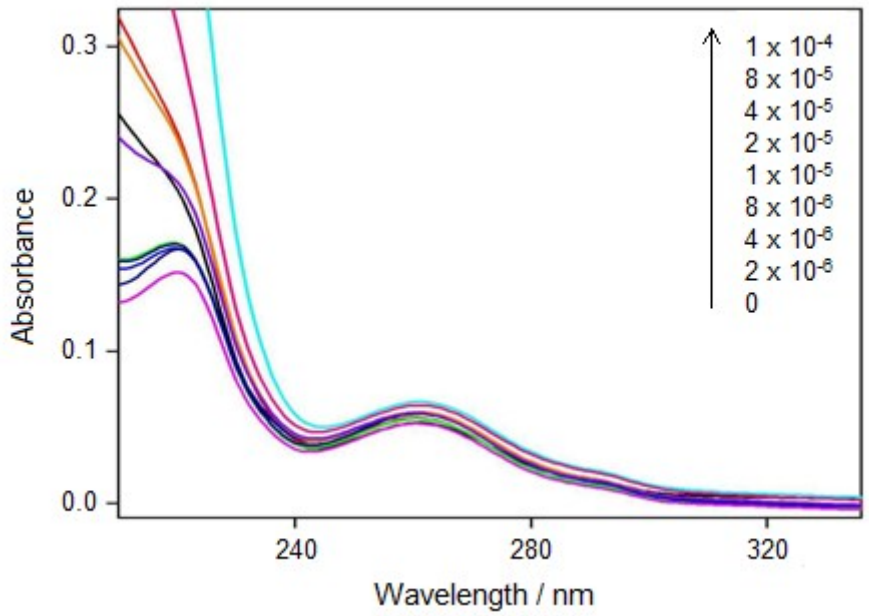
Chemical shift (ppm)	**Carbon**
57.56	Methylene carbons of the –NH–CH_2– bridge
111.98, 117.53	Aromatic carbons of the phenolic ring
144.65, 145.47	Aromatic carbons carrying phenolic OH
152.98	Carbon ‘a’ of the benzothiazole ring
152.13	Carbon ‘b’
148.76	Carbon ‘c’
120 – 137	Carbons ‘d’, ‘e’, ‘f’, ‘g’



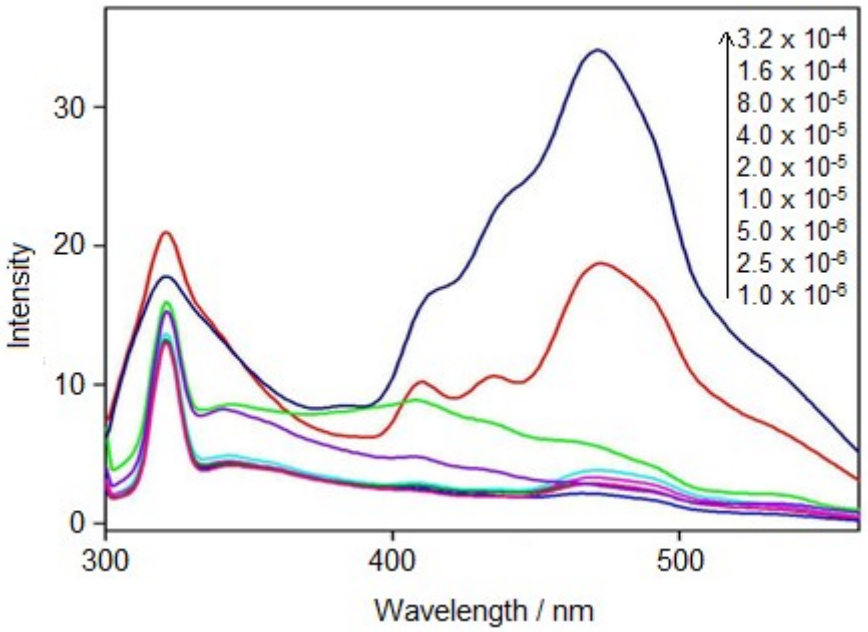
SI3. 2D ROESY Spectrum of Compound **1**–β–CD complex.



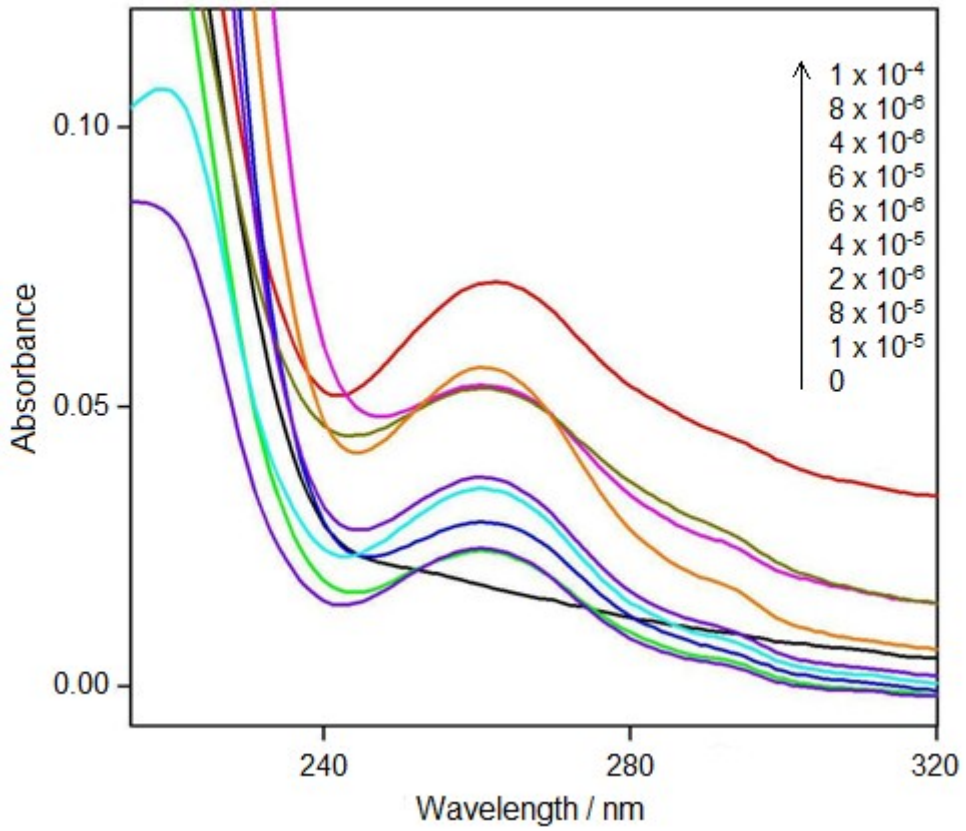
SI4. Absorption spectra of various metal ion added–Compound **1**.



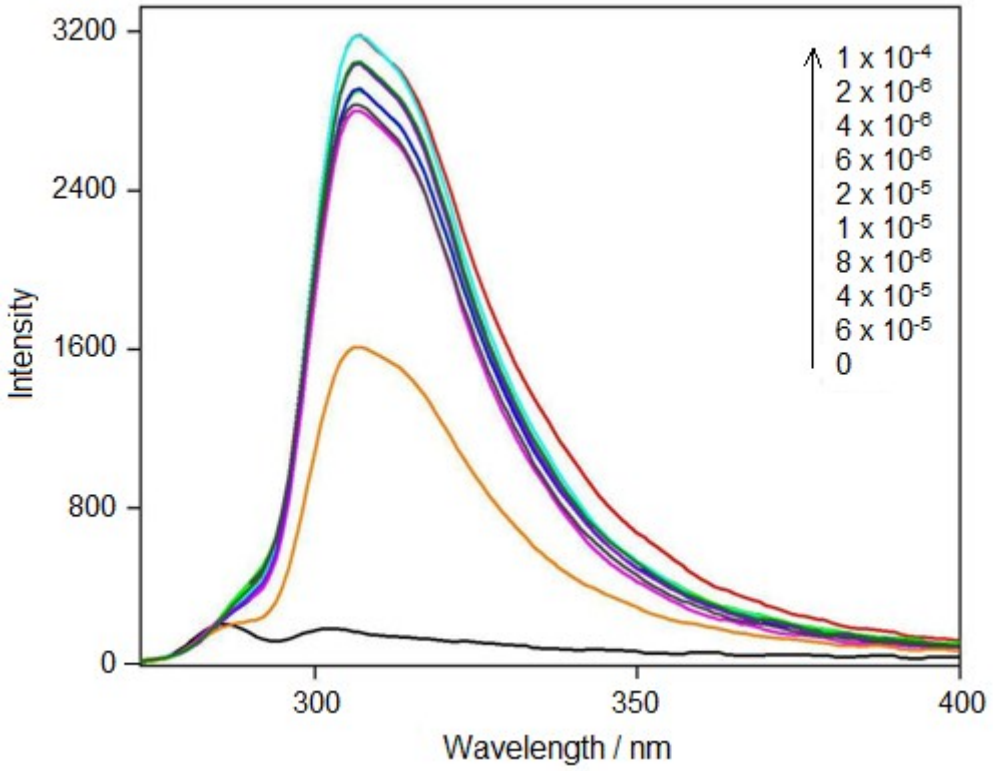
SI5. (a). Absorption spectra used for the Job's plot of **1**–Zn^{2+} binding in HEPES.



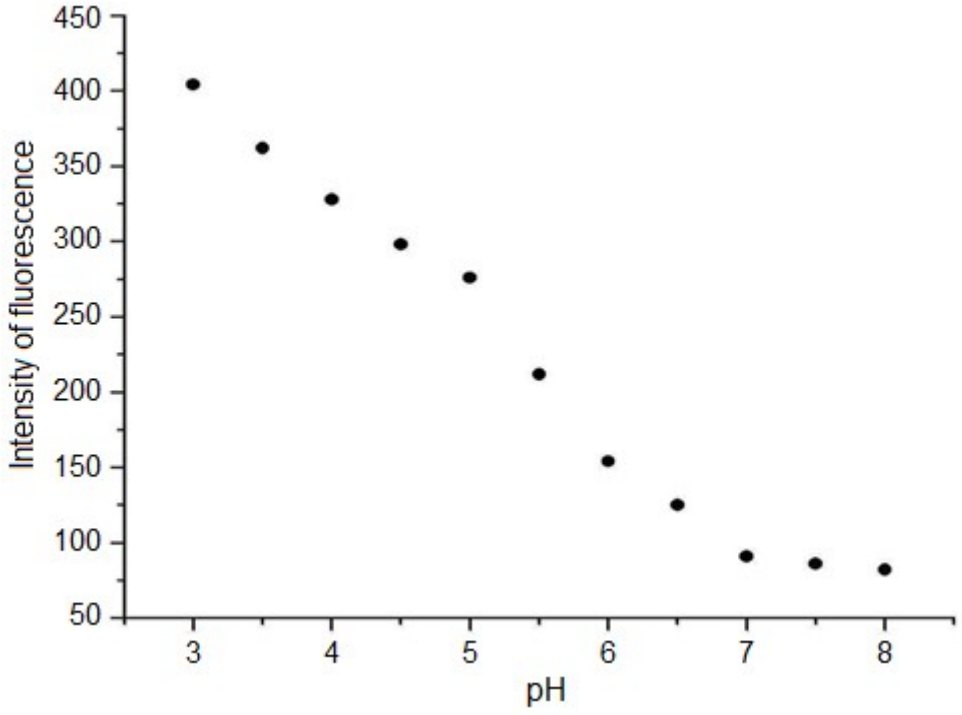
SI5. (b). Fluorescence spectra used for the Job's plot of **1**–Zn^{2+} binding in HEPES.



SI6. (a). Absorption spectra used for the Job's plot of **1**–Zn^{2+} binding in β-CD.



SI6. (b). Fluorescence spectra used for the Job's plot of **1**–Zn^{2+} binding in β-CD.



SI7. Effect of pH on the fluorescence intensity of **1.**