Supplementary information

Embedding an Extraordinary value of Gemifloxacin Antibiotics in ZIF-8 Framework with One-step Synthesis and Measurement of Its H$_2$O$_2$-Sensitive Release and Potency against Infectious Bacteria

Sajjad Soltani, Kamran Akhbari*

School of Chemistry, College of Science, University of Tehran, Tehran, Iran.
P.O. Box 14155-6455; Tel.: +98 21 61113734; fax: +98 21 66495291
E-mail address: akhbari.k@ut.ac.ir
Synthesis of ZIF-8

The solution of Zn(NO$_3$)$_2$·6H$_2$O (0.20g in 5mL H$_2$O) was added to the solution of the 2-methylimidazole (0.332g in 12mL H$_2$O + 0.3 mL TEA). After stirring the solution for 90 s, the precipitate remained motionless for 40 min. product was filtrated and washed three time with 10 mL distilled water and dried overnight in a vacuum oven.
Figure S1. Calibration plot of gemifloxacin (GEM).
Figure S2. EDAX analysis of GEM@ZIF.
Figure S3. Nitrogen adsorption and desorption isotherms of GEM@ZIF and ZIF-8.
Figure S4. Comparison of dispersion of GEM@ZIF and ZIF-8.