Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B. This journal is © The Royal Society of Chemistry 2014

## One-step hydrothermal synthesis of Fe<sub>3</sub>O<sub>4</sub>@C nanoparticles with great performance in biomedicine

Gui-Yun Mao<sup>a</sup>, Wen-Jing Yang<sup>b</sup>, Fan-Xing Bu<sup>a</sup>, Dong-Mei Jiang<sup>a</sup>, Zhen-Jie Zhao<sup>a</sup>, Qing-Hong Zhang<sup>c</sup>, Qi-Chen Fang<sup>b\*</sup>, Ji-Sen Jiang<sup>a\*</sup>

- <sup>a</sup> Department of Physics, Center for Functional Nanomateriels and Devices, East China Normal University, Shanghai 200241, P. R. China. E-mail: jsjiang@phy.ecnu.edu.cn (J. S. Jiang); Fax/Tel:+86-21-54342940
- b Shanghai Diabetes Institute, Shanghai Key Laboratory of Diabeties Mellitus, Department of Endocrinology and Metabolism, Shanghai Jiao Tong University Affiliated Sixth People's Hospital, Shanghai 200233, P. R. China. E-mail: qcfang@sjtu.edu.cn (Q. C. Fang); Fax/Tel:+86-21-24058657
- <sup>c</sup> Engineering Research Center of Advanced Glasses Manufacturing Technology, MOE, Donghua University, Shanghai 201620, P. R. China

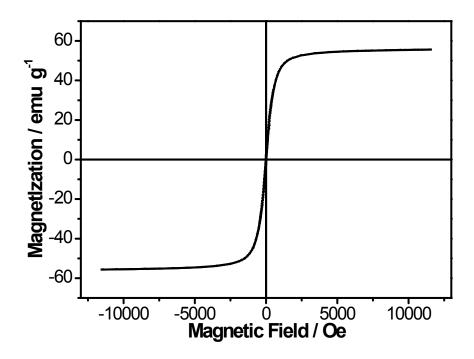


Figure S1. M-H loop of Fe $_3$ O $_4$ @C nanoparticles after drug release at pH 5.8 for 200 h.