Electronic Supplementary Material (ESI) for Analyst.

Bacteria-derived fluorescent carbon dots for highly selective detection of *p-nitrophenol* and bio-imaging

Shengting Zhang, [#a] Dongfang Zhang, [#b] Yafang Ding, [b] Jianhao Hua, [b] Bing Tang, [c] Xiuling Ji, [b] Qi Zhang, [b] Yunlin Wei, [b] Kunhao Qin *[b, d] and Bo Li *[e]

a. *Faculty of Environmental Science and Engineering, Kunming University of Science and Technology, Kunming 650500, China.*

b. *Faculty of Life Science and Technology, Kunming University of Science and Technology, Kunming 650500, China*

c. *College of Life Sciences, Wuhan University, Wuhan, 430072*

d. *Post-doctoral Research Station in Geological Resources and Geological Engineering, Faculty of Land Resource Engineering, Kunming University of Science and Technology, Kunming 650500, China.*

e. *Faculty of Land Resource Engineering, Kunming University of Science and Technology, Kunming 650500, China.*

#. These authors have contributed equally to this work.

*. Corresponding author.

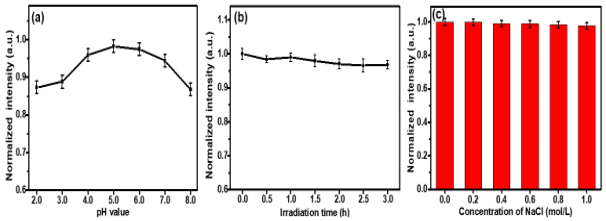

Fig. S1 (a) The fluorescence intensity of CDs-BC varying with the sample pH value from 2 to 8. (b) Normalized fluorescence intensity of CDs-BC under UV (365 nm) irradiation for 3 h. (c) Normalized fluorescence intensity of CDs-BC in different NaCl concentrations ranging from 0 to 1 M.

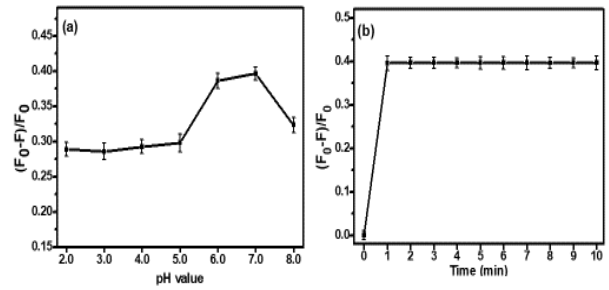

Fig. S2 Effect of (a) sample pH value and (b) reaction time on the detection of *p*-NP with CDs-BC.

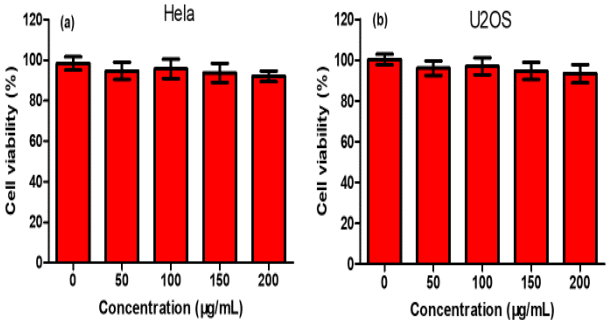

Fig. S3 Hela (a) and U2OS (b) cell viability from MTT assays with different CDs-BC concentration after 24 h incubation.