## Thermal Decomposition of Ethylenediaminetetraacetic Acid in the Presence of 1,2-Phenylenediamine and Hydrochloric Acid

Jingwen Chen, a,b Jinhao Gao and Xiaoyong Wang \*,a

<sup>a</sup>State Key Laboratory of Pharmaceutical Biotechnology, School of Life Science and Nanjing University, Nanjing 210093, P. R. China

<sup>b</sup>Yancheng Institute of Technology, Yancheng 214003, P. R. China

<sup>c</sup>State Key Laboratory of Coordination Chemistry, Coordination Chemistry Institute, Nanjing University, Nanjing 210093, P. R. China

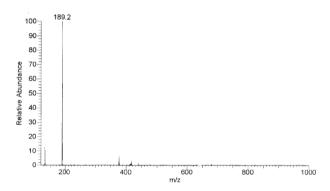


Figure S1. ES-MS spectrum of compound 1.

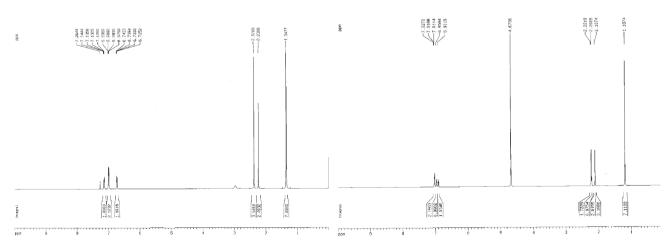


Figure S2. <sup>1</sup>H NMR spectra of compound 1 in CDCl<sub>3</sub> (left) and D<sub>2</sub>O (right).

<sup>\*</sup>e-mail: boxwxy@nju.edu.cn

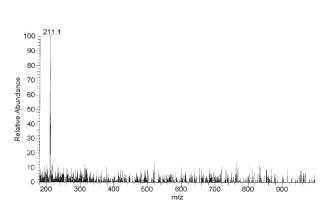


Figure S3. ES-MS spectrum of compound 2.

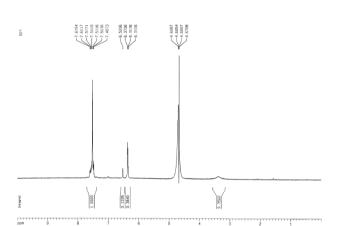


Figure S4.  $^{1}$ H NMR ( $D_{2}$ O) spectrum of compound 2.

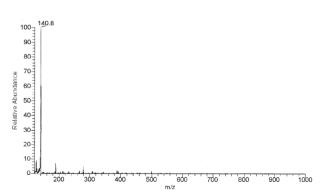


Figure S5. ES-MS spectrum of compound 3.

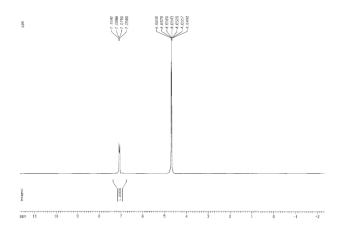
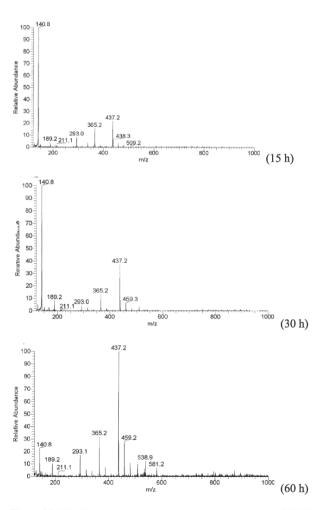


Figure S6. <sup>1</sup>HNMR (D<sub>2</sub>O) spectrum of compound 3.



**Figure S7.** ES-MS spectra detected with the reacting solution of EDTA and o-PDA in the 6 mol L<sup>-1</sup> hydrochloric acid at 373-383 K (15 h, 30 h, and 60 h).

1000 (15 h)

(30 h)

(60 h)

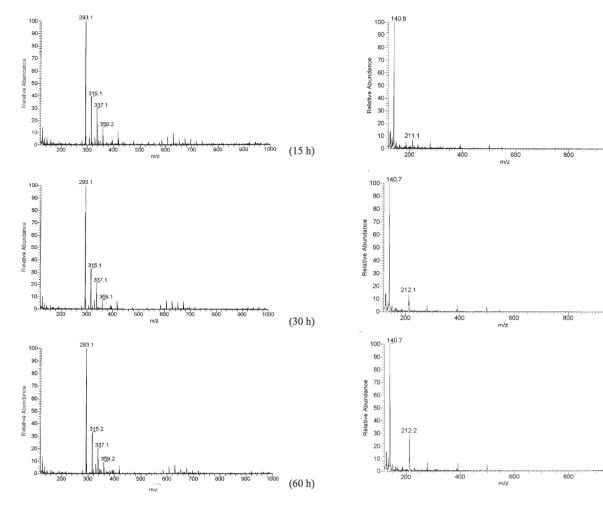


Figure S8. ES-MS spectra detected with the solution of EDTA in the 6 mol  $L^{\text{-1}}$  hydrochloric acid at 373-383 K (15 h, 30 h, and 60 h).

**Figure S9.** ES-MS spectra detected with the solution of o-PDA in the 6 mol L<sup>-1</sup> hydrochloric acid at 373-383 K (15 h, 30 h, and 60 h).