A sensitive LED-induced chemiluminescence platform for aptasensing of platelet-derived growth factor

Xinfeng Zhang\textsuperscript{a,b\*}, Hui Zhang\textsuperscript{a}, Shuxia Xu\textsuperscript{a,b} and Yonghua Sun\textsuperscript{a,b}

\textsuperscript{a} College of material and chemistry & chemical engineering, Chengdu University of Technology, Chengdu 610059, China. Tel: +86-28-84079022;

\textsuperscript{b} Mineral Resources Chemistry Key Laboratory of Sichuan Higher Education Institutions, Chengdu University of Technology, Chengdu 610059, China

\* Corresponding author at: College of material and chemistry & chemical engineering, Chengdu university of Technology, Sichuan 610059, China

E-mail: zhangxinfeng09@cdut.cn

Fax: +86-28-84079022
1. Reproducibility of LED-CL behaviors for FITC-aptamer

**Fig.S1** Reproducibility of LED-CL behaviors for FITC-aptamer. Experimental conditions: FITC-aptamer concentration, 5 nM; LED color, green; LED irradiation time, 15s; luminol pH, 11.0; and luminol concentration, $1 \times 10^{-4}$ M

2. Absorption spectrum of luminol

**Fig.S2** The absorption spectrum of luminol

3. Absorption spectrum of FITC
4. Effect of luminol concentration.

**Fig. S3** The absorption spectrum of FITC

**Fig. S4** Effect of luminol concentration on the LED-CL signals of FITC-aptamer and blank signals. Experimental conditions: FITC- FITC-aptamer concentration, 1 nM; LED color, green; LED irradiation time, 15s; and luminol concentration, $1 \times 10^{-4}$ M