

Preparation and characterization of a homogenous immunoassay for point-of-care testing (POCT) of procalcitonin (PCT)

Zhaoying Li^{†a,b}, Weixiang Zhai^{†c}, Lu Wang^{a,d}, Jiyang Liu^e, Chunjie Li^{†b} and Liang Xu^{*a,c,d}

^a Graduate School, Tianjin Medical University, Tianjin, 300070, China.

^b Tianjin Chest Hospital, Tianjin, 300222, China

^c Tianjin Medical College, Tianjin, 300222, China

^d School of Pharmacy, Tianjin Medical University, No.22 Qixiangtai Road, Heping District, Tianjin, 300070, China

^e Epsilon Biotechnology Corporation, Zhejiang, 311199, China

[†] These authors contributed equally to this work.

*Corresponding author: xuliang@tmu.edu.cn

SUPPLEMENTARY MATERIAL

Figures

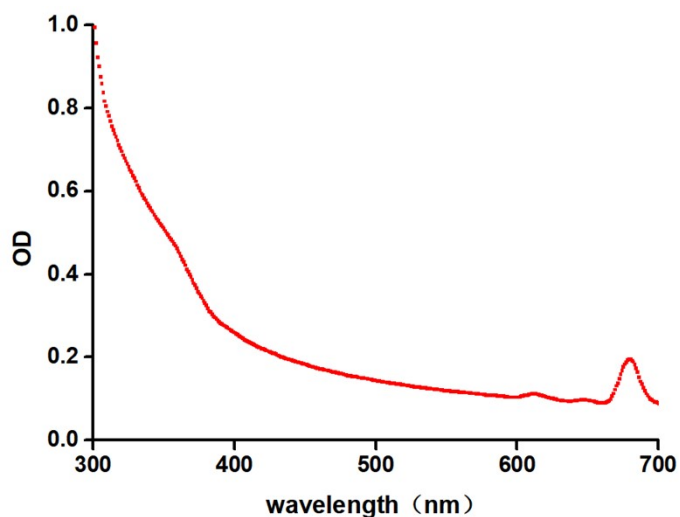


Fig. S1 Full wavelength scanning spectrum of donor bead.

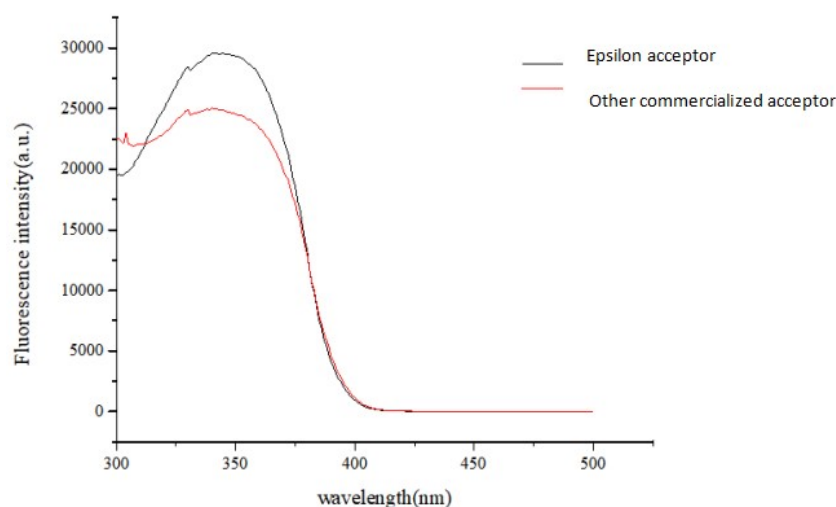


Fig. S2 Excitation spectra of acceptors.

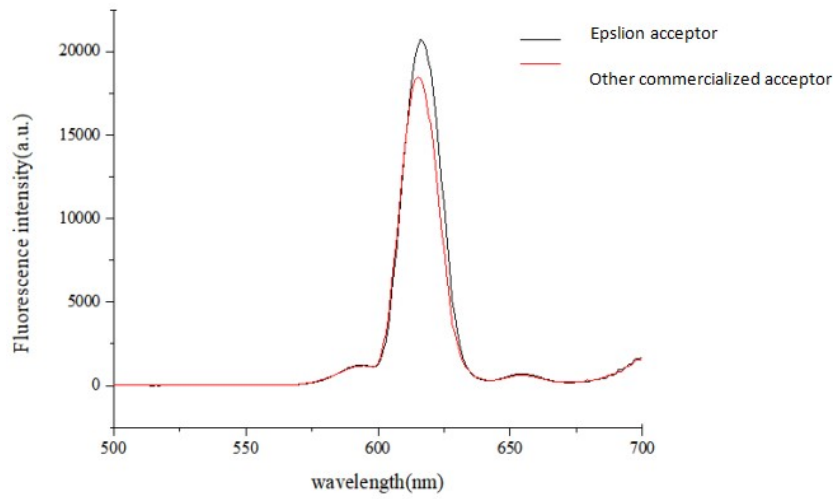


Fig. S3 Emission spectrums of acceptors.

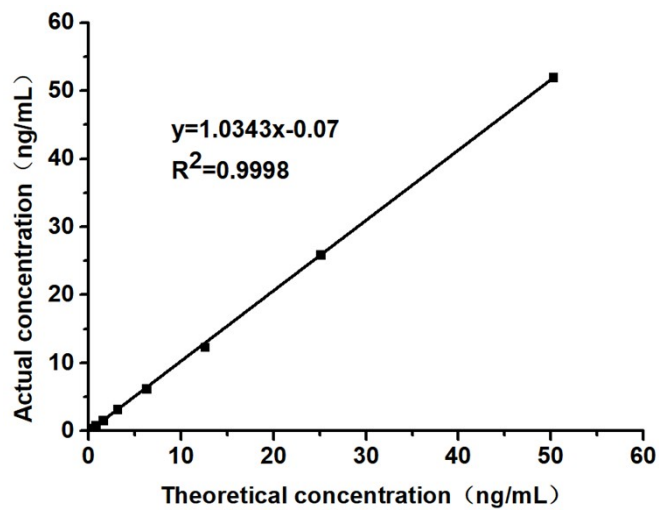


Fig. S4 Correlation analysis between theoretical concentration of PCT in serum samples and actual concentration of PCT in serum samples measured by SMILE method.

Table

Table. S1 Recovery of PCT serum samples with different dilution (n=13)

Theoretical concentration (ng/mL)	Actual concentration (ng/mL)	Recovery (%)
50.20	52.00	103.59
25.10	25.90	103.19
12.55	12.37	98.57
6.28	6.25	99.60
3.14	3.22	102.63
1.57	1.60	101.99
0.78	0.82	104.54
0.39	0.39	98.42
0.20	0.21	107.09
0.10	0.10	101.99
0.049	0.049	99.95
0.025	0.023	93.83
0.012	0.011	89.75