

Supporting information for:

**Water soluble and fluorescent Copolymer for Highly Sensitive
and Selective fluorescent Chemosensor for Cyanide Anion
Detection in biological medium**

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1 Determination of the detection limit¹

The detection limit DL of chemosensor **5** was determined from the following equation:

$$DL = K \times Sb_1 / S$$

Where

$K = 3$;

Sb_1 is the standard deviation of the blank solution;

S is the slope of the calibration curve.

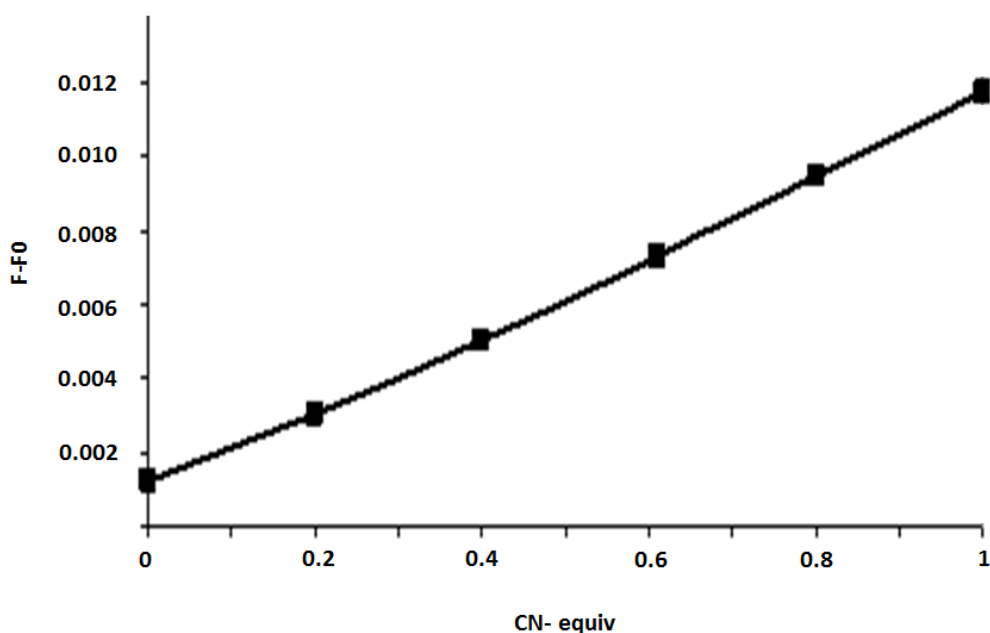


Figure S₁: Calibration curve of **P2-CN-** in HEPES (pH=7.4). The excitation wavelength was 460 nm. The concentration of the chemosensor was 50 μ M.

$$Y = A + B \times X$$

Parameter	Value	Error
A =	0.0011	0.000233
B	2811.23	101.23657
R	0.99374	

$$DL = 1.17 \mu\text{M}$$

2. References

- 1 M. Zhu, M. Yuan, X. Liu, J. Xu, J. Lv, C. Huang, H. Liu, Y. Li, S. Wang and D. Zhu, *Org. Lett.*, **2008**, 10, 1481.