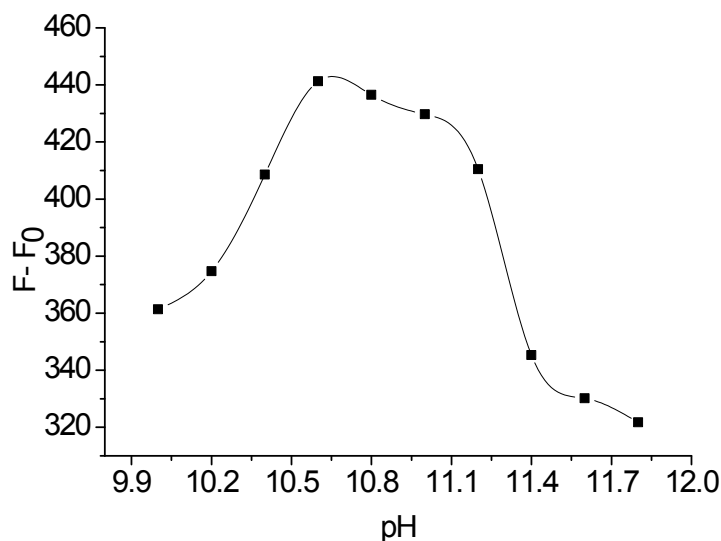


1 **SI.1** Effect of pH on the fluorescence intensity

2 [Pd²⁺-Acridine red]: 6×10^{-6} mol/L. [L-isoleucine]: 1 mg/L. [Kolthoff]: 0.7 mL.

3 [CTMAB]: 9×10^{-4} mol/L.

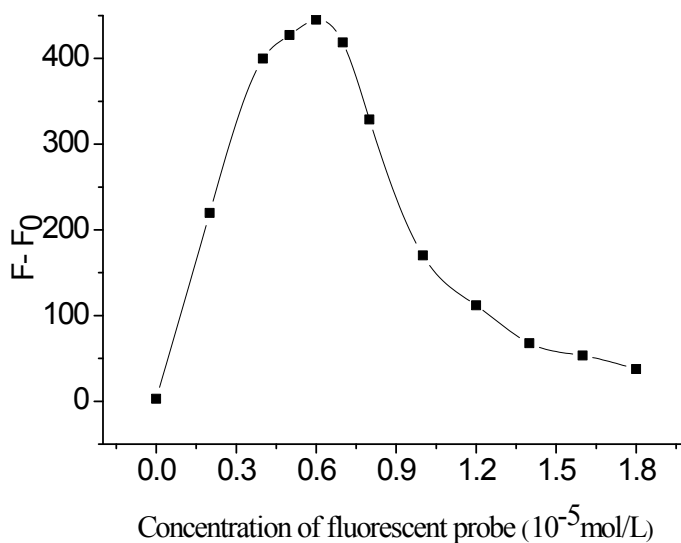


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6 **SI.2** Influence of Pd²⁺-Acridine red concentration on the fluorescence intensity

7 pH=10.7. [L-isoleucine]: 1 mg/L. [Kolthoff]: 0.7 mL. [CTMAB]: 9×10^{-4} mol/L

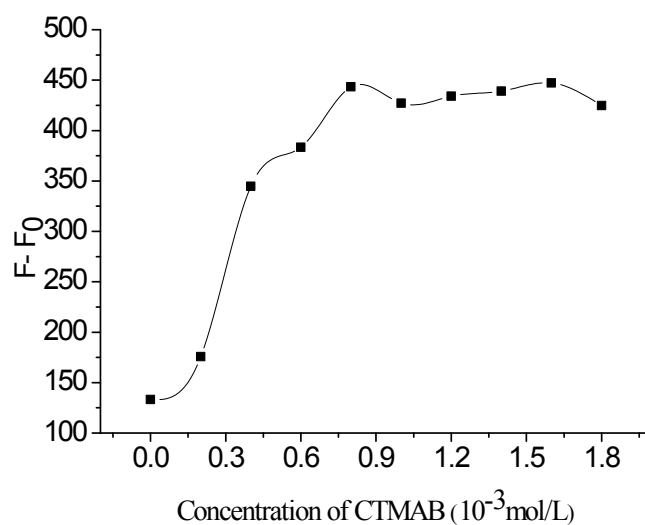


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9

10 **SI.3** Influence of the concentration of CTMAB on the fluorescence intensity. [Pd²⁺-

11 Acridine red]: 6×10^{-6} mol/L. pH=10.7. [L-isoleucine]: 1 mg/L. [Kolthoff]: 0.7 mL.



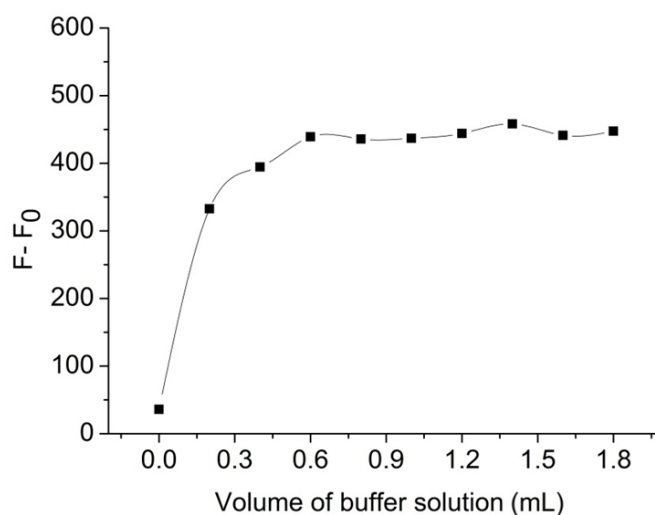
1

2

3 **SI.4** Influence of the dosage of buffer solution on the fluorescence intensity.

4 [Pd²⁺-Acridine red]: 6×10^{-6} mol/L. pH=10.7. [L-isoleucine]: 1mg/L. [CTMAB]: 9×10^{-4}

5 mol/L.



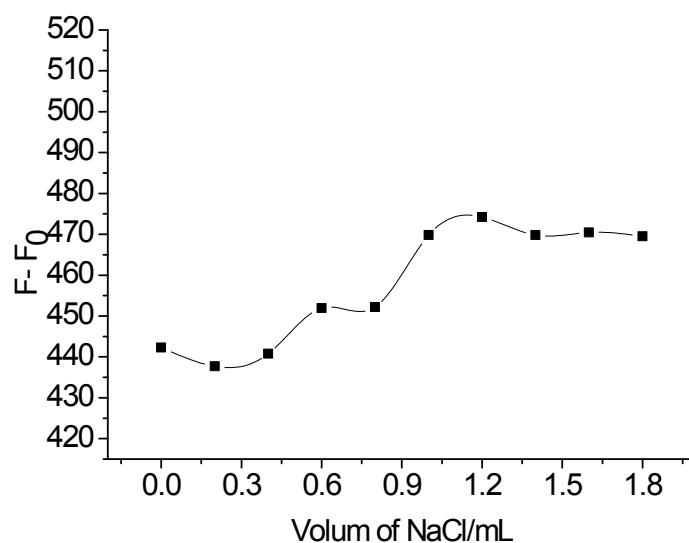
6

7

8 **SI.5** Influence of ionic intensity on the system.

9 [Pd²⁺-Acridine red]: 6×10^{-6} mol/L. pH=10.7. [L-isoleucine]: 1mg/L. [CTMAB]: 9×10^{-4}

10 mol/L. [Kolthoff]: 0.7mL.



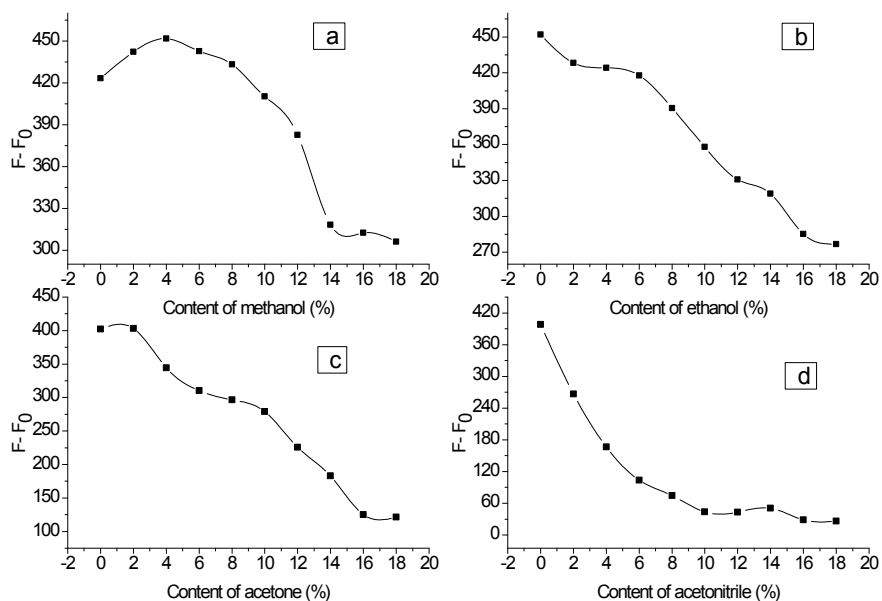
1

2

3 **SI.6** Influence of organic solvents on system

4 [Pd²⁺-Acridine red]: 6 × 10⁻⁶ mol/L. pH=10.7. [L-isoleucine]: 1mg/L. [CTMAB]: 9 × 10⁻⁴

5 mol/L. [Koltthoff]: 0.7mL.



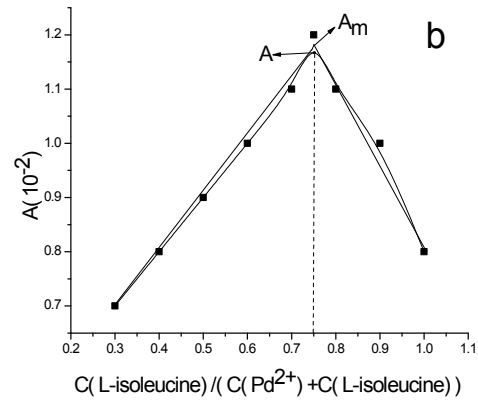
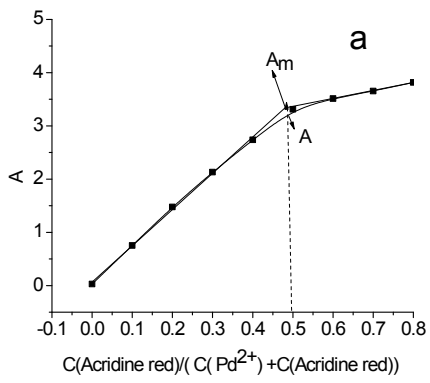
6

7 **SI.7** Job's plot for the determination of the stoichiometry of Pd²⁺-Acridine red and

8 Pd²⁺-L-isoleucine

9 SI.7a: C (Pd²⁺) + C (Acridine red) = 2 × 10⁻⁴ mol/L SI.7b: C (Pd²⁺) + C (L-isoleucine)

10 = 2 × 10⁻⁴ mol/L



1