УДК 544.77.03 + 546.663 + 547.82

Supplementary materials

Effect of the quinolone structure on the possibility of their luminescent detection using phospholipid nanoaggregates non-covalently modified with amphiphilic Tb(III) complexes.

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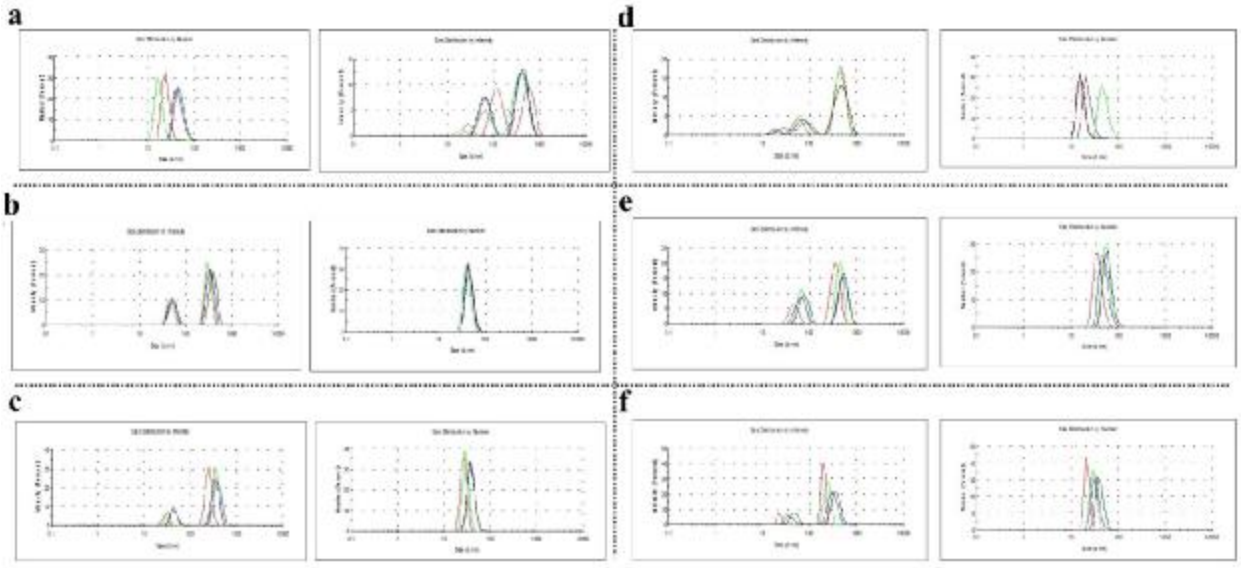


Figure S1. Size distributions by intensity and by number, measured for PC-TCA at pH 4.5 (a), pH 7.1 (b), and pH 7.5 (c), as well as in the presence of Tb(III) ions at pH 7.1 (d) and pH 7.5 (e).

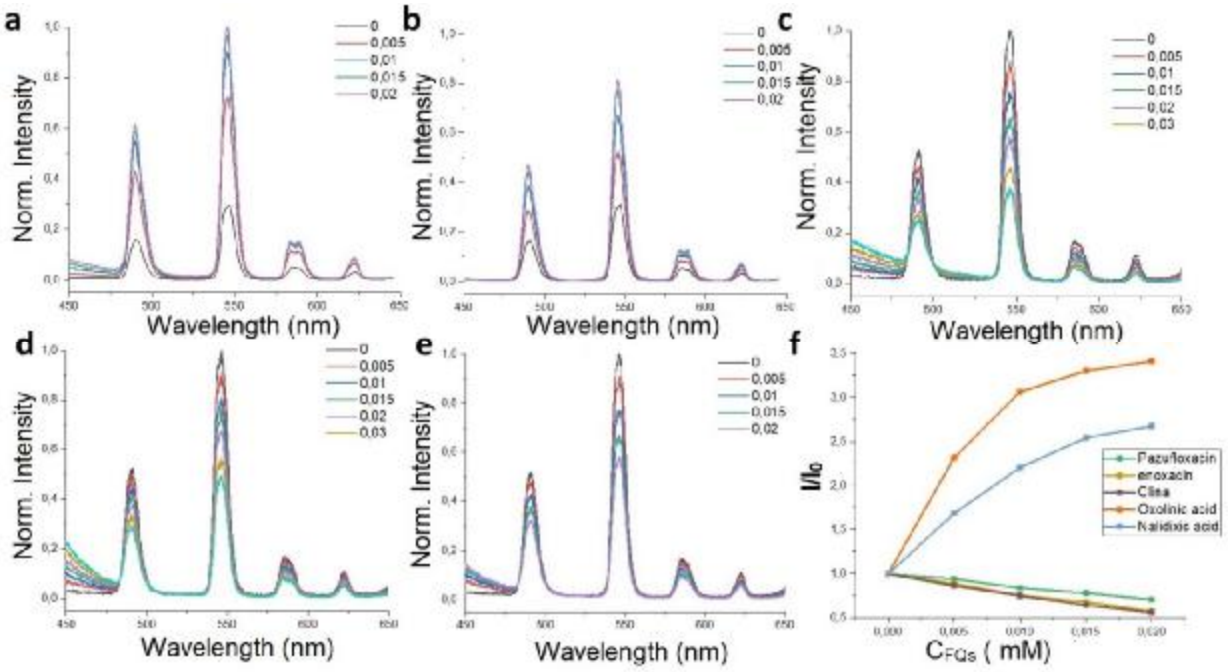


Figure S1. Normalized luminescence spectra of PC–TCATb (0.13 mmol/L PC, 0.01 mmol/L TCA, and 0.01 mmol/L Tb) measured in the presence of various concentrations of quinolones at pH 7.1 and 293 K: NDA (a); OXA (b); CLFX (c); ENX (d); PZFX (e)

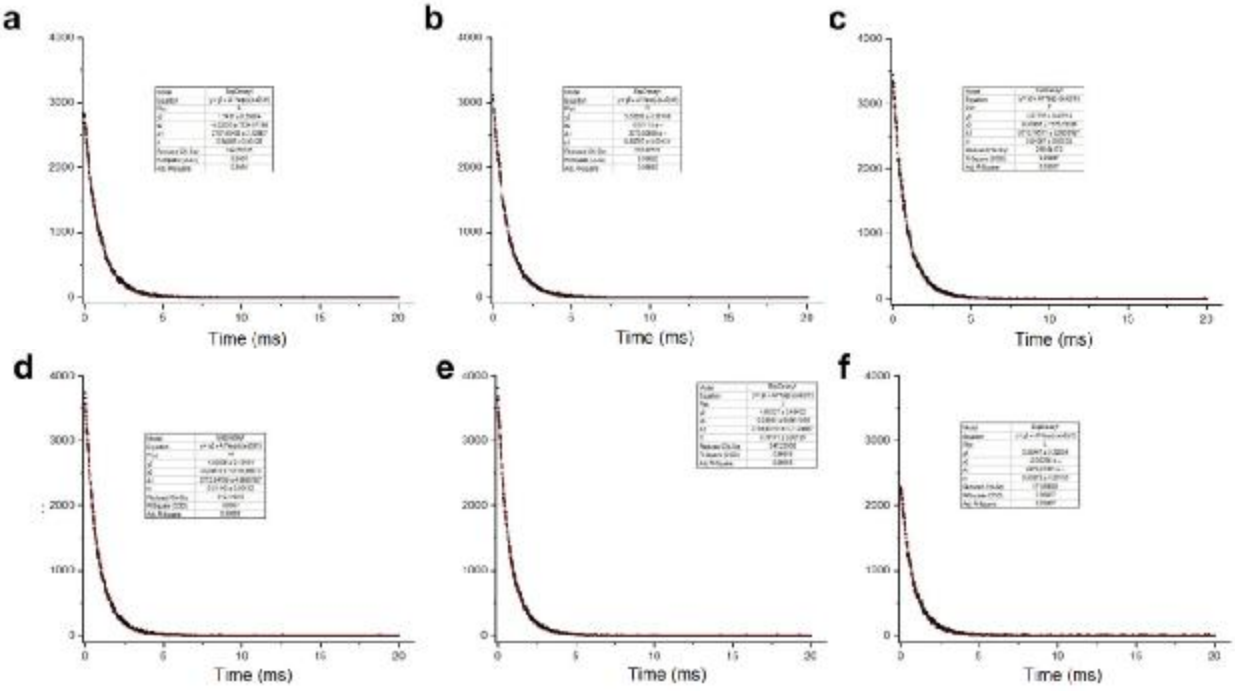


Figure S3. Luminescence decay curves for Tb(III)-centered emission at 546 nm, recorded for PC–TCATb at various OXA concentrations: a – 0; b – 0.0033 mmol/L; c – 0.0066 mmol/L; d – 0.01 mmol/L; e – 0.0133 mmol/L; f – 0.02 mmol/L.

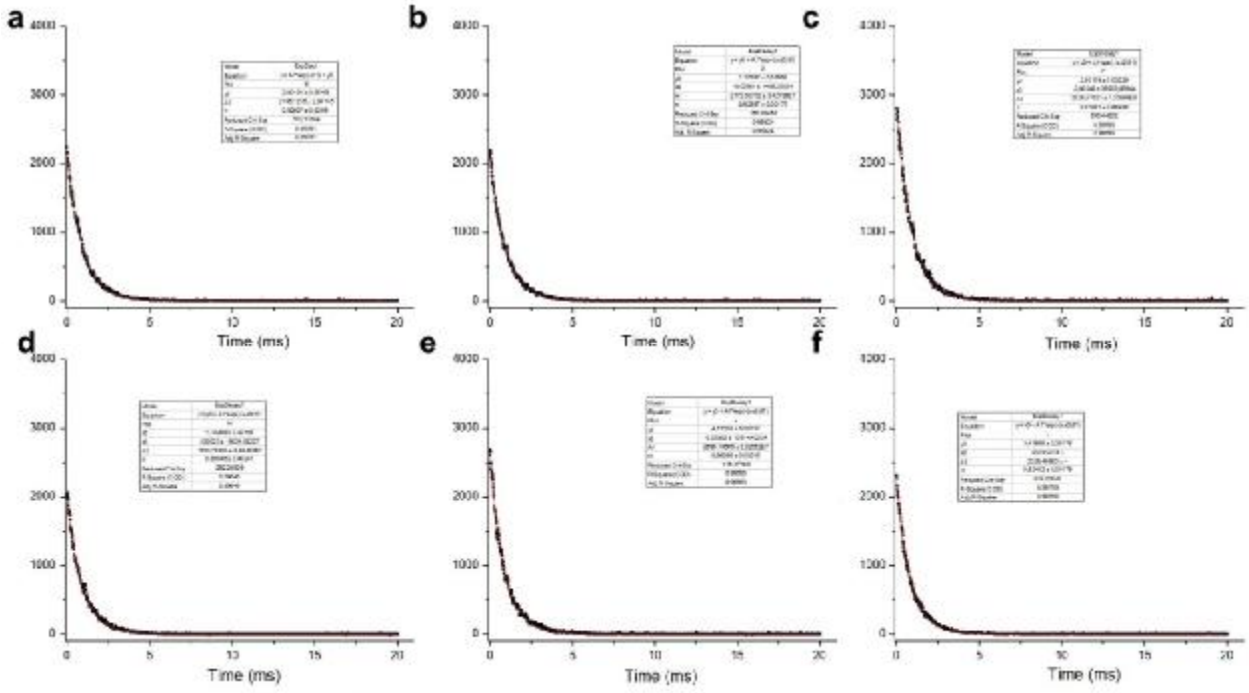


Figure S4. Luminescence decay curves for Tb(III)-centered emission at 546 nm, recorded for PC–TCATb at various NDA concentrations: a – 0; b – 0.0033 mmol/L; c – 0.0066 mmol/L; d – 0.01 mmol/L; e – 0.0133 mmol/L; f – 0.02 mmol/L

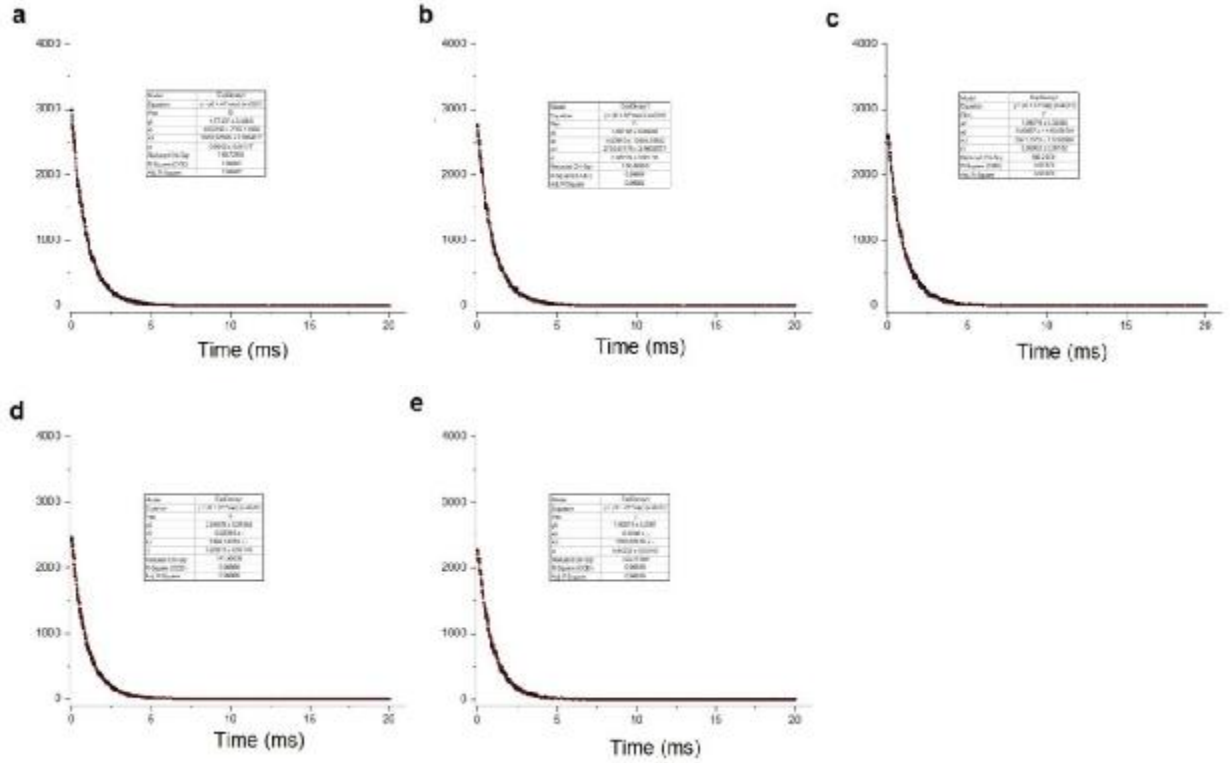


Figure S5. Luminescence decay curves for Tb(III)-centered emission at 546 nm, recorded for PC–TCATb at various ENO concentrations: a – 0; b – 0.0033 mmol/L; c – 0.0066 mmol/L; d – 0.01 mmol/L; e – 0.0133 mmol/L; f – 0.02 mmol/L.

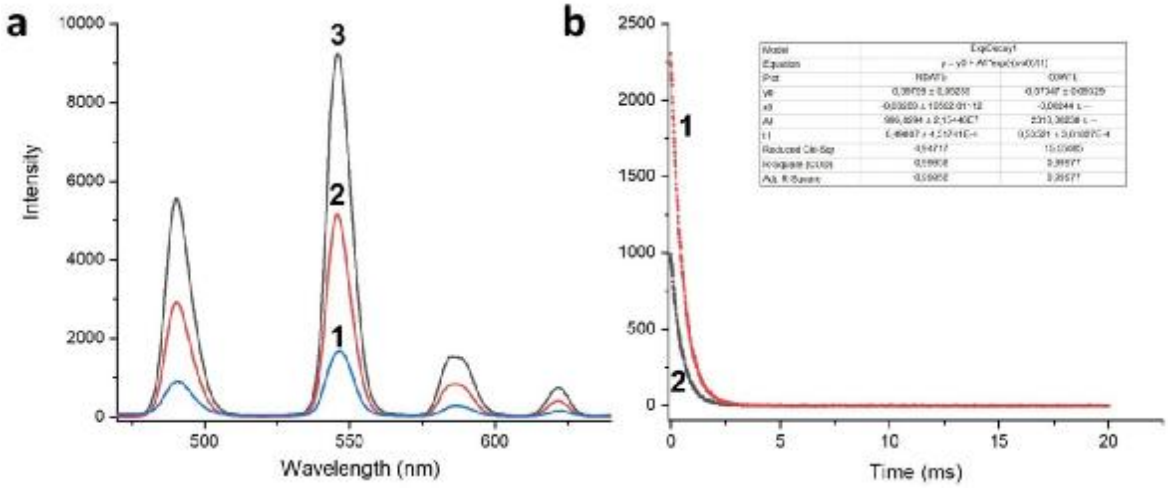


Figure S6. (a) Luminescence spectra recorded under identical conditions (slit 5, voltage 600, excitation at 330 nm): 1 – PC–TCATb (0.13 mmol/L PC, 0.01 mmol/L TCA, 0.01 mmol/L Tb(III)); 2 – NDATb (0.01 mmol/L NDA, 0.01 mmol/L Tb(III)); 3 – OXATb (0.01 mmol/L OXA, 0.01 mmol/L Tb(III)). (b) Decay curves recorded for: 1 – OXATb; 2 – NDATb.

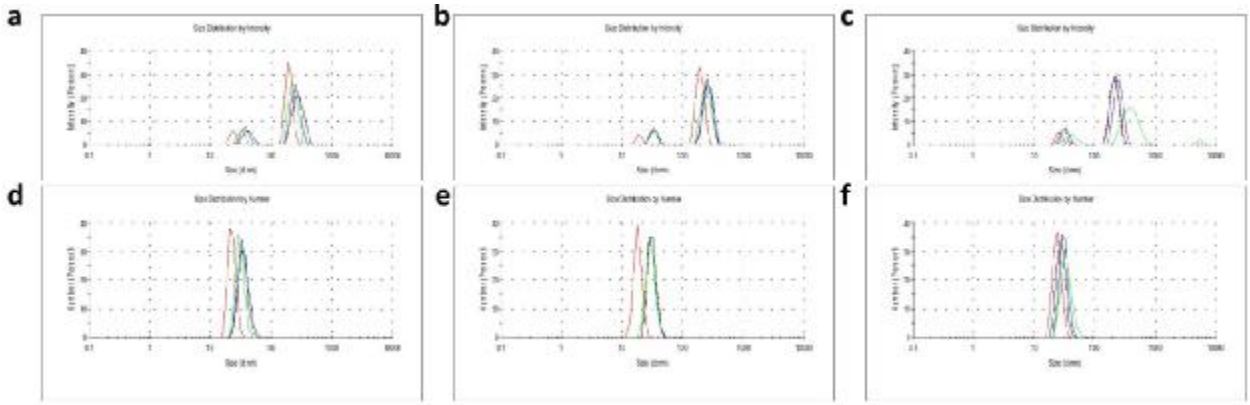


Figure S7. Size distributions by intensity and by number, measured for PC–TCATb (0.13 mmol/L PC, 0.01 mmol/L TCA, 0.01 mmol/L Tb(III)) in the presence of: 0.01 mmol/L OXA (a,d); 0.01 mmol/L NDA (b,e); 0.01 mmol/L ENO (b,e).