

Supplementary material
to
**A New Chemosensor Based on a Luminescent Complex
for the Investigation of Some Organophosphorus
Pesticides in Environmental Samples**

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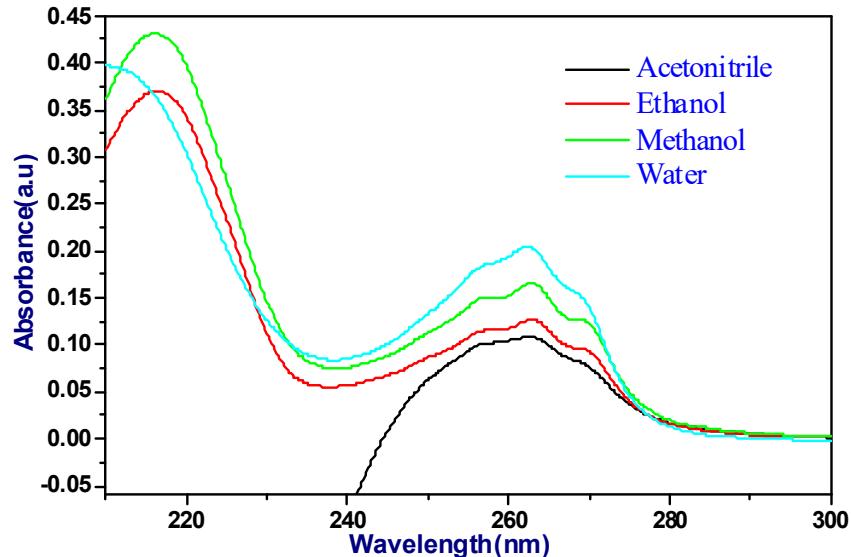


Figure S1 UV-Vis spectra of 5×10^{-5} mol. l⁻¹ ligand (vitB1) in different solvents and at room temperature

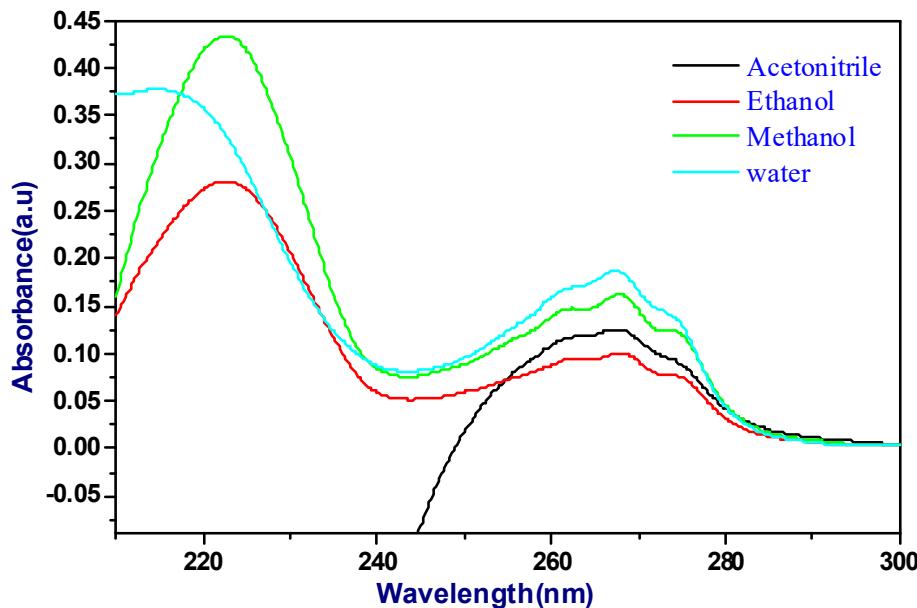


Figure 2S UV-Vis spectra of 2.5×10^{-5} mol. l⁻¹ Eu(III)-(vitB1)₂ complex in different solvents and at room temperature.

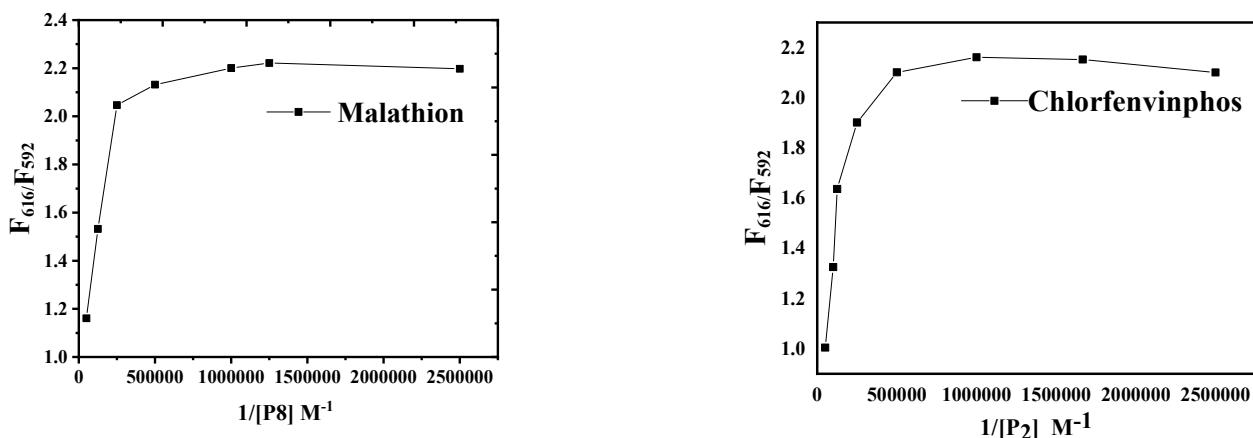


Figure S3 The luminescence intensity ratio of Eu(III)-(vitB1) complex at two wavelengths (616/592 nm) versus $1/[P]$ in methanol at $\lambda_{ex}=268$ nm, at room temperature).

Table S1: Apparent binding constants ($\log K$) of the Eu (III)-(VitB1)₂ complex with chlorfenvinphos and malathion pesticides using ratiometric analysis by measuring fluorescence intensity at emission wavelengths 616 and 592 nm in methanol and at room temperature

Pesticides	Eu(III)-(VitB1) ₂
	Log K
Chlorfenvinphos	5.50 ± 0.01
Malathion	6.62 ± 0.05