

**Synthesis, spectral characterization, structure studies, molecular docking and antimicrobial evaluation of new dioxidouranium(VI) complexes incorporating tetradentate  $N_2O_2$  Schiff base ligands**

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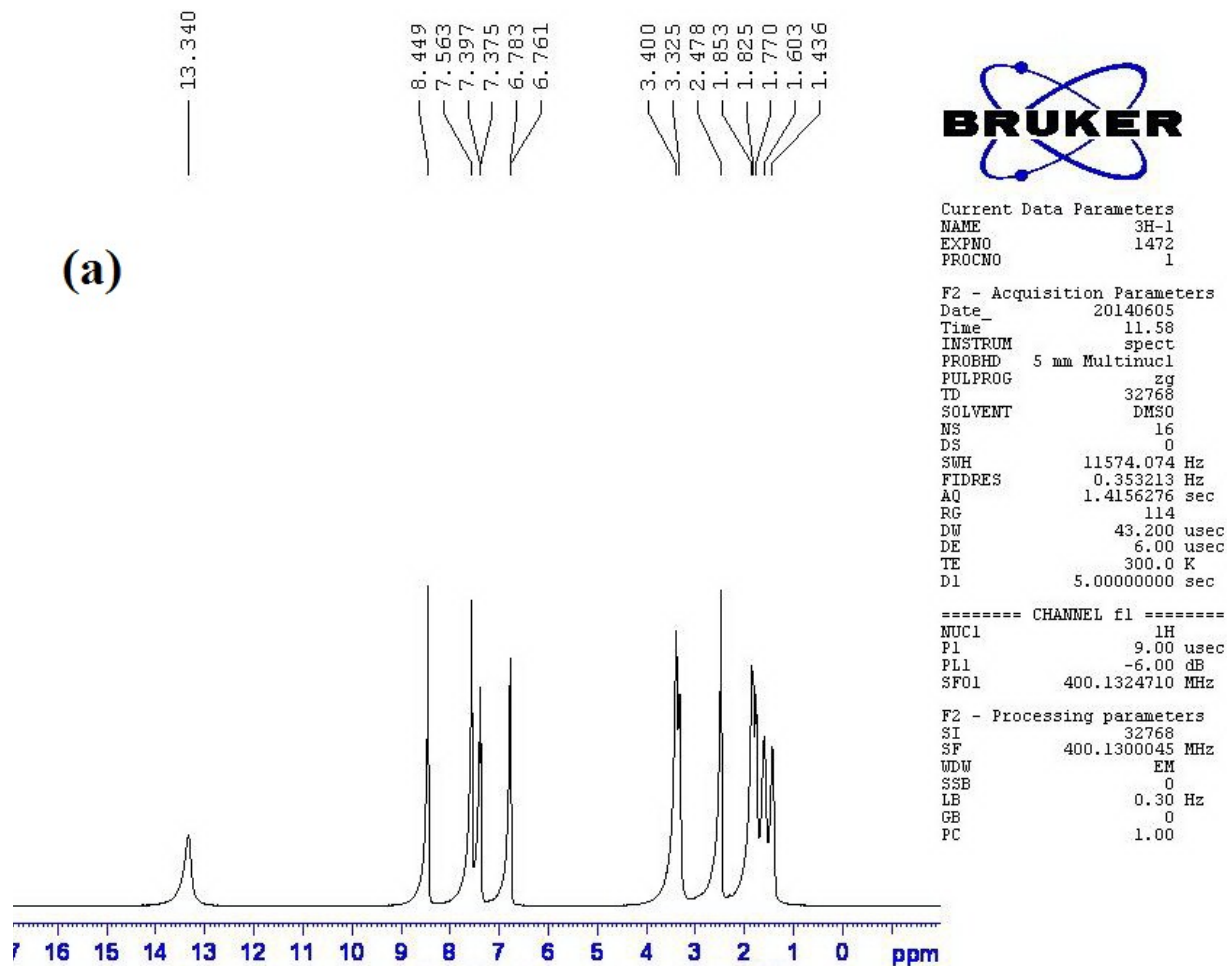


Fig. S1.  $^1\text{H}$  NMR spectrum of  $\text{H}_2\text{L}^1$

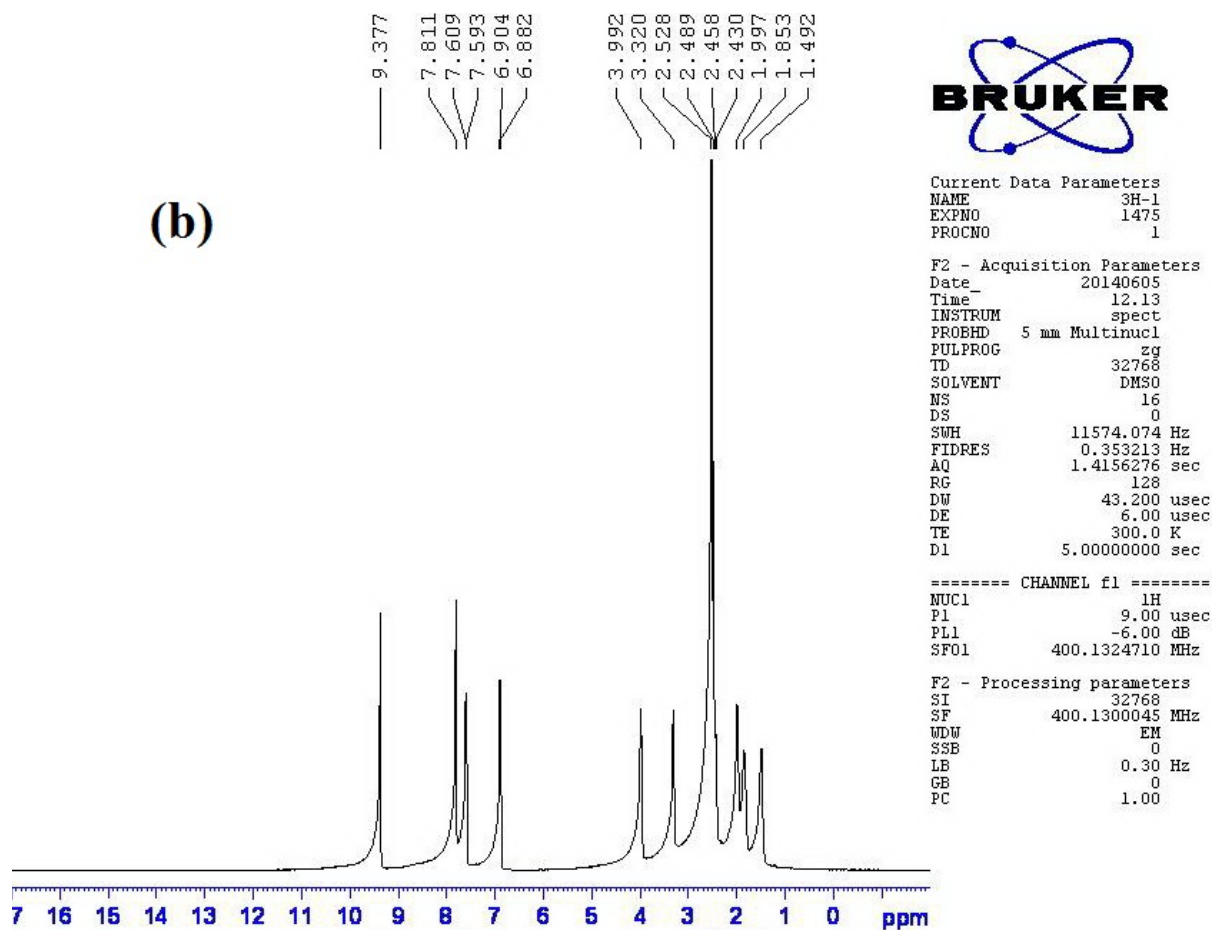


Fig. S2. <sup>1</sup>H NMR spectrum of [UO<sub>2</sub>(L<sup>1</sup>)(DMSO)].

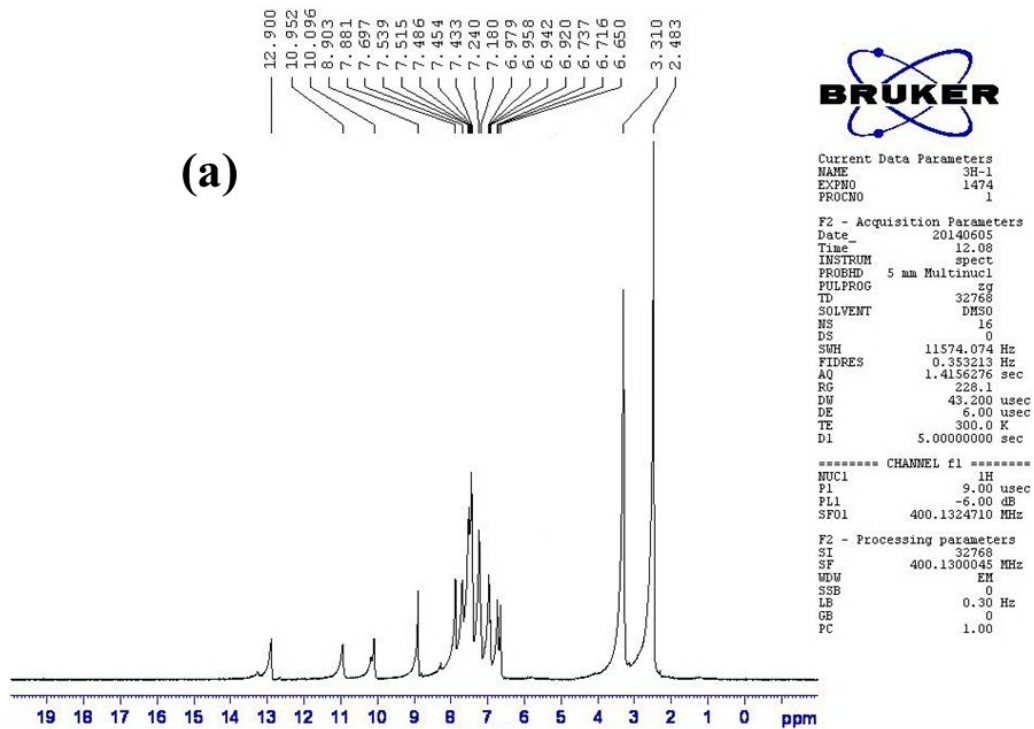


Fig. S3.  $^1\text{H}$  NMR spectrum of  $\text{H}_2\text{L}^2$

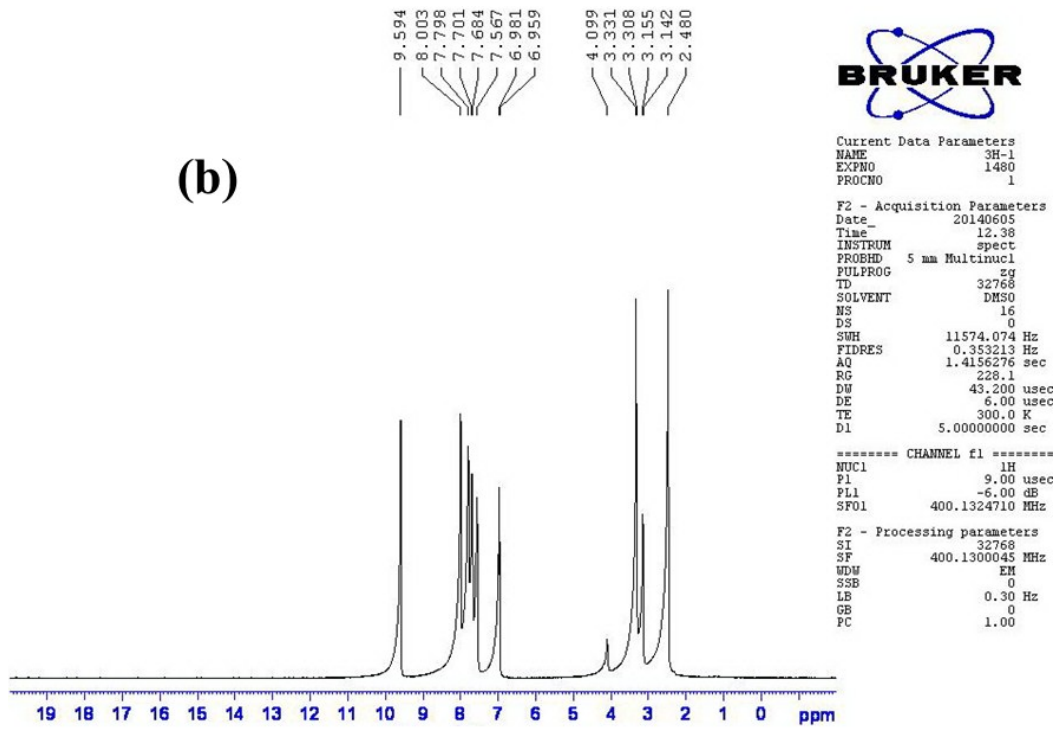
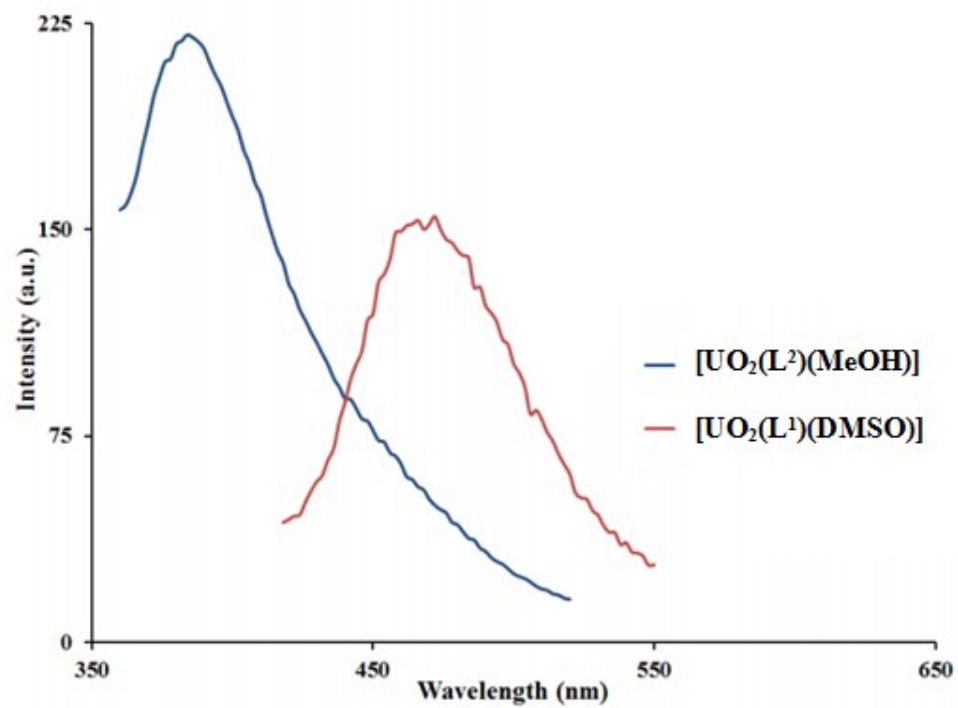
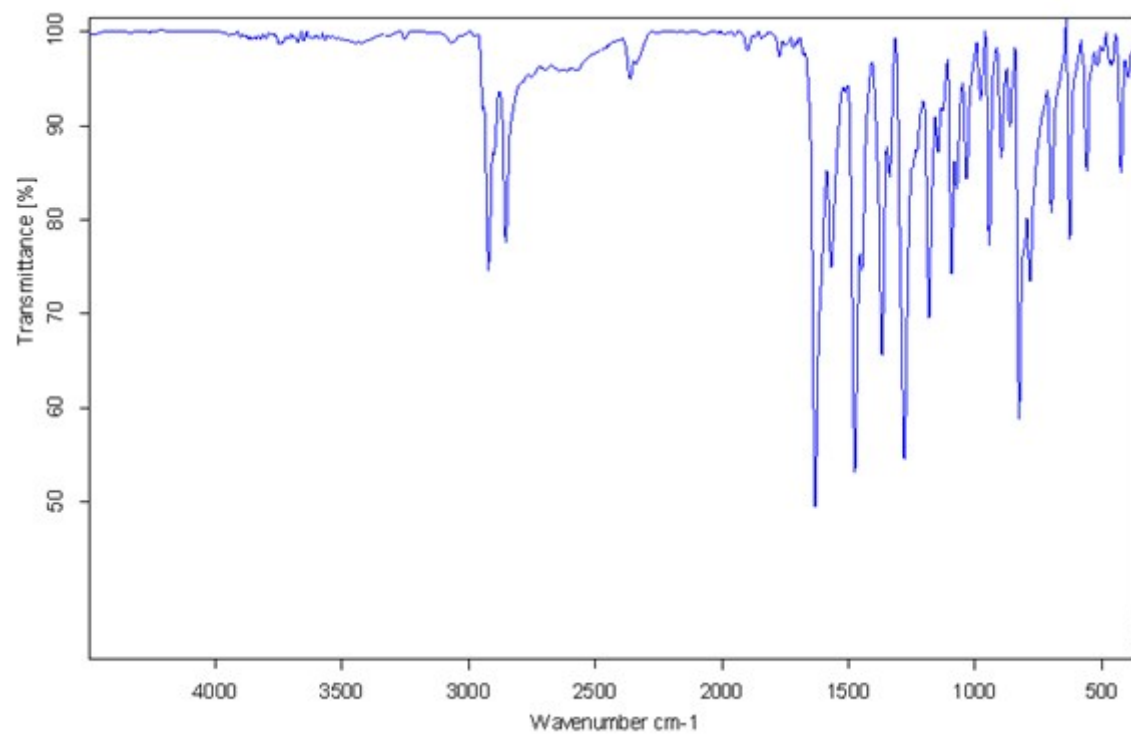


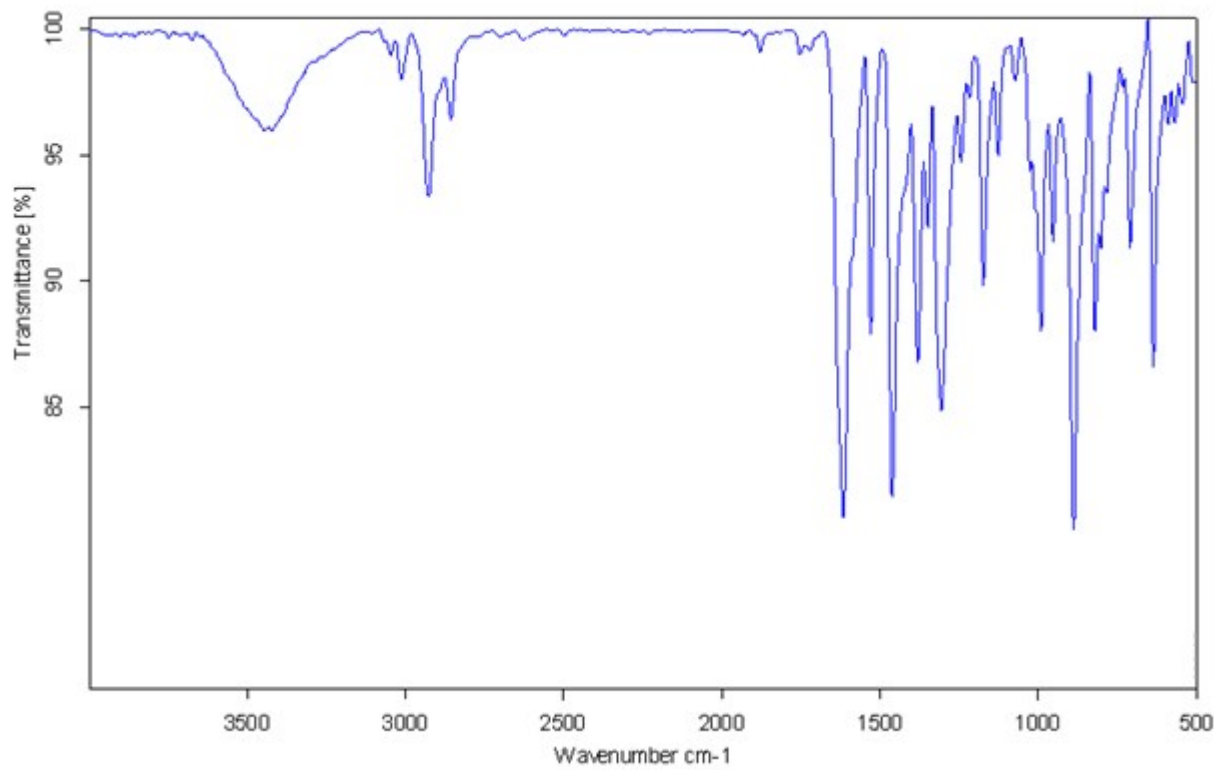
Fig. S4.  $^1\text{H}$  NMR spectrum  $[\text{UO}_2(\text{L}^2)(\text{MeOH})]$ .



**Fig. S5.** Fluorescent spectra of complexes 1 and 2.

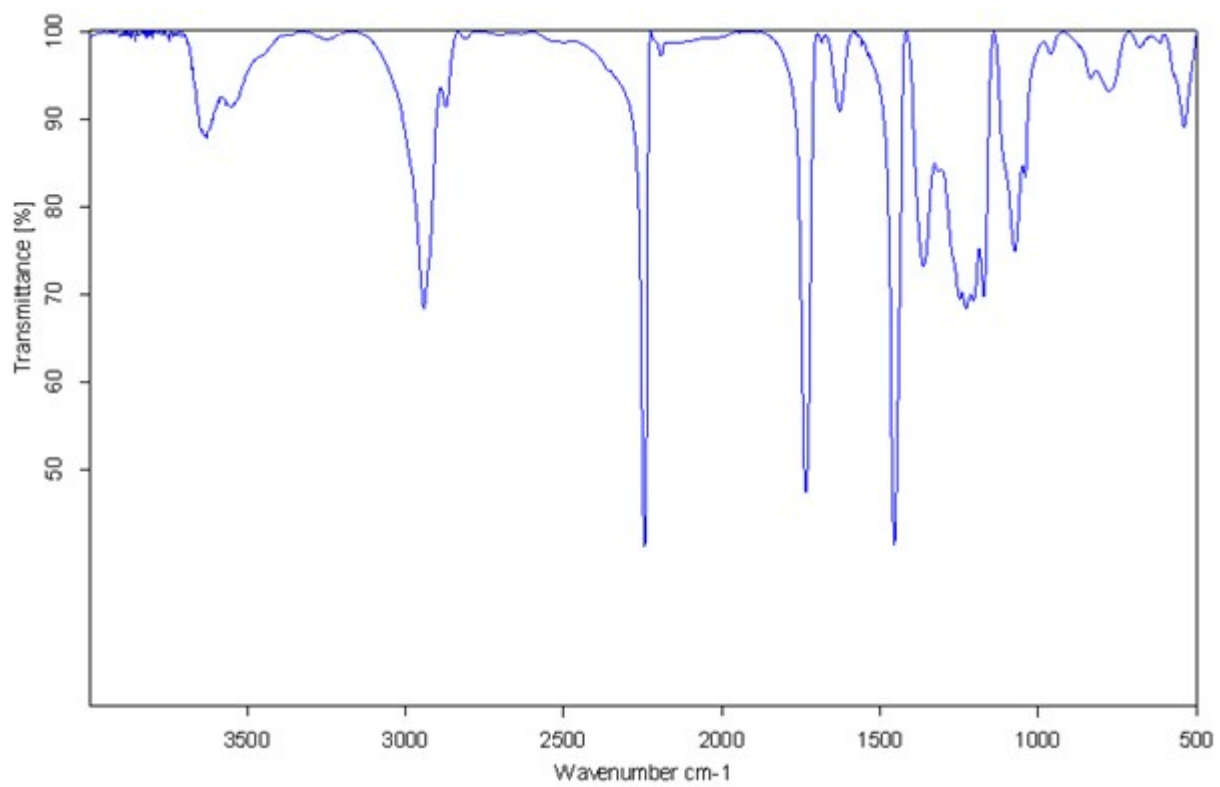


**Fig. S6.** FTIR spectrum of H<sub>2</sub>L<sup>1</sup>

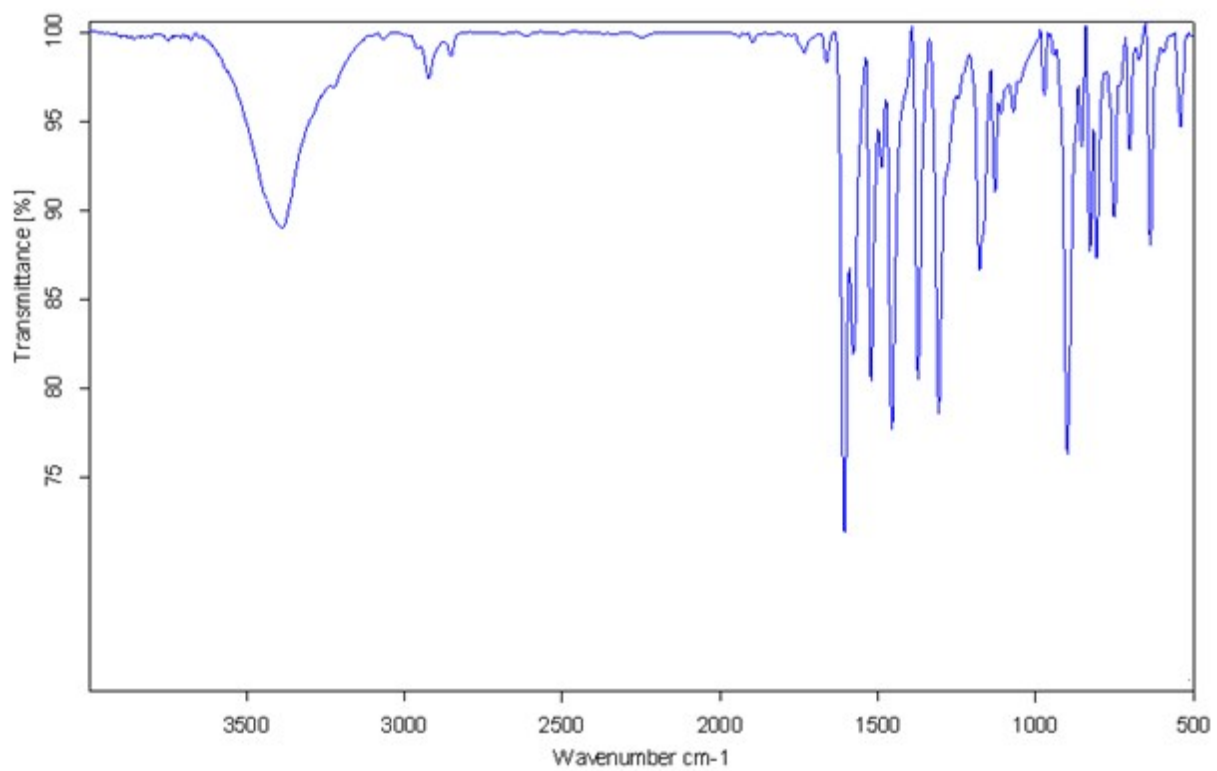


**Fig. S7.** FTIR spectrum of [UO<sub>2</sub>(L<sup>1</sup>)(DMSO)].





**Fig. S8.** FTIR spectrum of H<sub>2</sub>L<sup>2</sup>



**Fig. S9.** FTIR spectrum of [UO<sub>2</sub>(L<sup>2</sup>)(MeOH)].