

Figure S1. UV-Visible absorption spectrum of ligand L^2 and complexes 4-6 in ethanol.

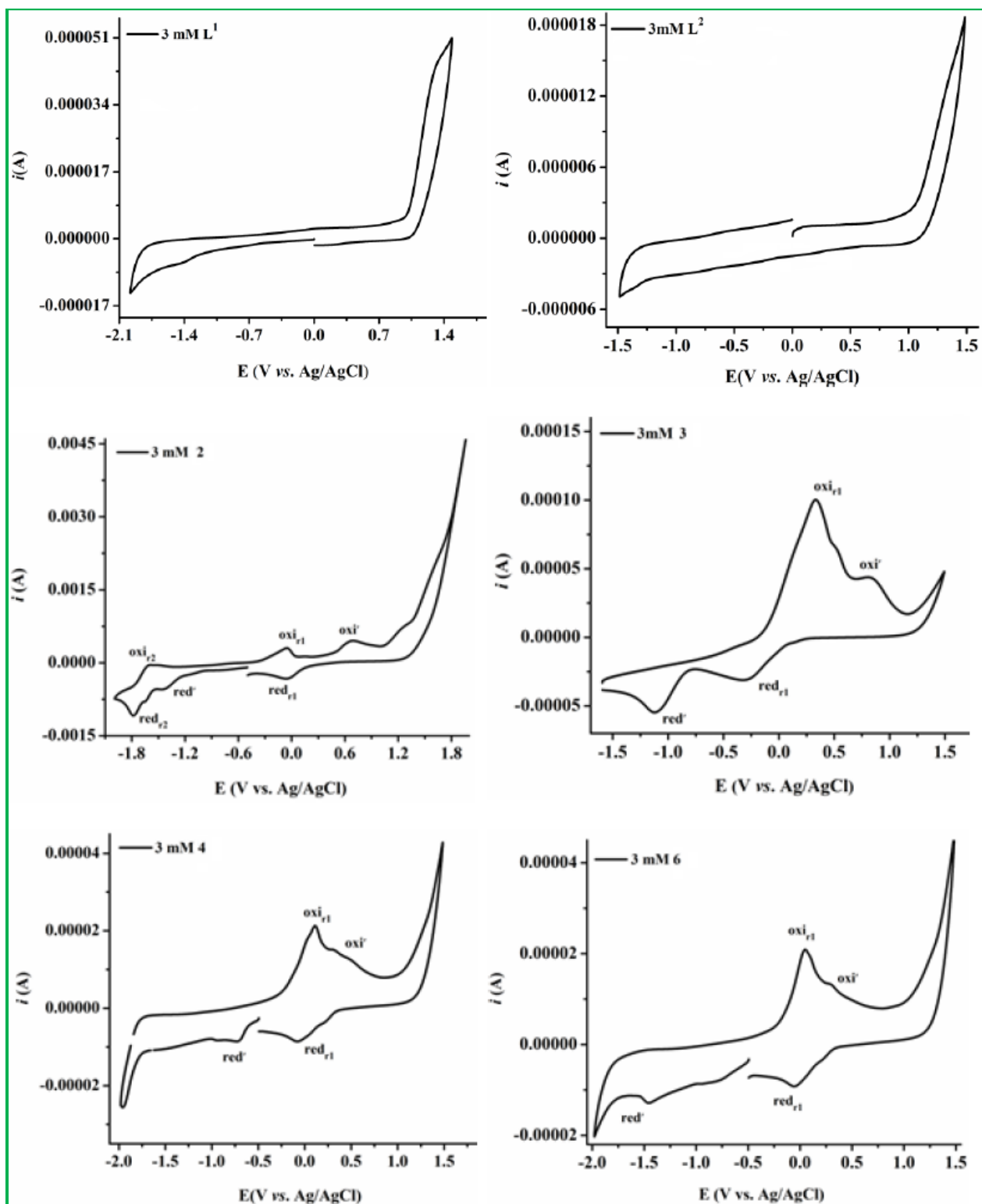


Figure S2. Cyclic voltammograms of Ligand L^1 , L^2 and complexes 2-4 and 6

Table S1. Electrochemical parameter for complexes **1-6** before and after DNA addition

Comp.	E (V) before DNA			E (V) after DNA			Change in potentials		
	E _a	E _c	E _{1/2}	E _a '	E _c '	E _{1/2} '	ΔE _a	ΔE _c	ΔE _{1/2}
1	0.478	n.o	-	0.535	n.o	-	0.056		
	0.203	-0.268	-0.032	0.336	-0.158	0.088	0.132	0.109	0.012
	n.o	-1.016	-	n.o	-0.591		-	0.424	
	0.690	n.o		0.821	n.o		0.131		
2	-0.049	-0.055	-0.052	0.271	0.031	0.151	0.321	0.087	0.20
	n.o	-1.428		n.o	-1.145		-	0.283	
	-1.602	-1.780	-3.383	-1.413	-1.638	-1.525	0.189	0.142	1.85
	0.846	n.o		disappear	n.o		-	-	
3	0.326	-0.327	-5E-05	0.511	-0.267	0.121	0.184	0.059	1.21E-01
4	n.o	-1.122		n.o	0.611			1.734	
	0.315	n.o		0.318	n.o		0.002		
	0.112	-0.076	0.01785	0.134	-0.047	0.110	0.021	0.028	0.092
	n.O	-0.723		n.o	disappear				
5	0.570	0.132		0.720	disappear		0.150		
	0.134	0.067	0.1008	0.129	-0.050	0.039	-0.005	-0.117	-0.06
	-1.226	-1.422		disappear	-1.169			0.253	
6	0.282	n.o		disappear	n.o				
	0.071	-0.086	-0.0076	0.148	0.0036	0.076	0.076	0.090	0.08
	n.o	-0.982		n.o	disappear				
	n.o	-1.278		n.o	diappear				

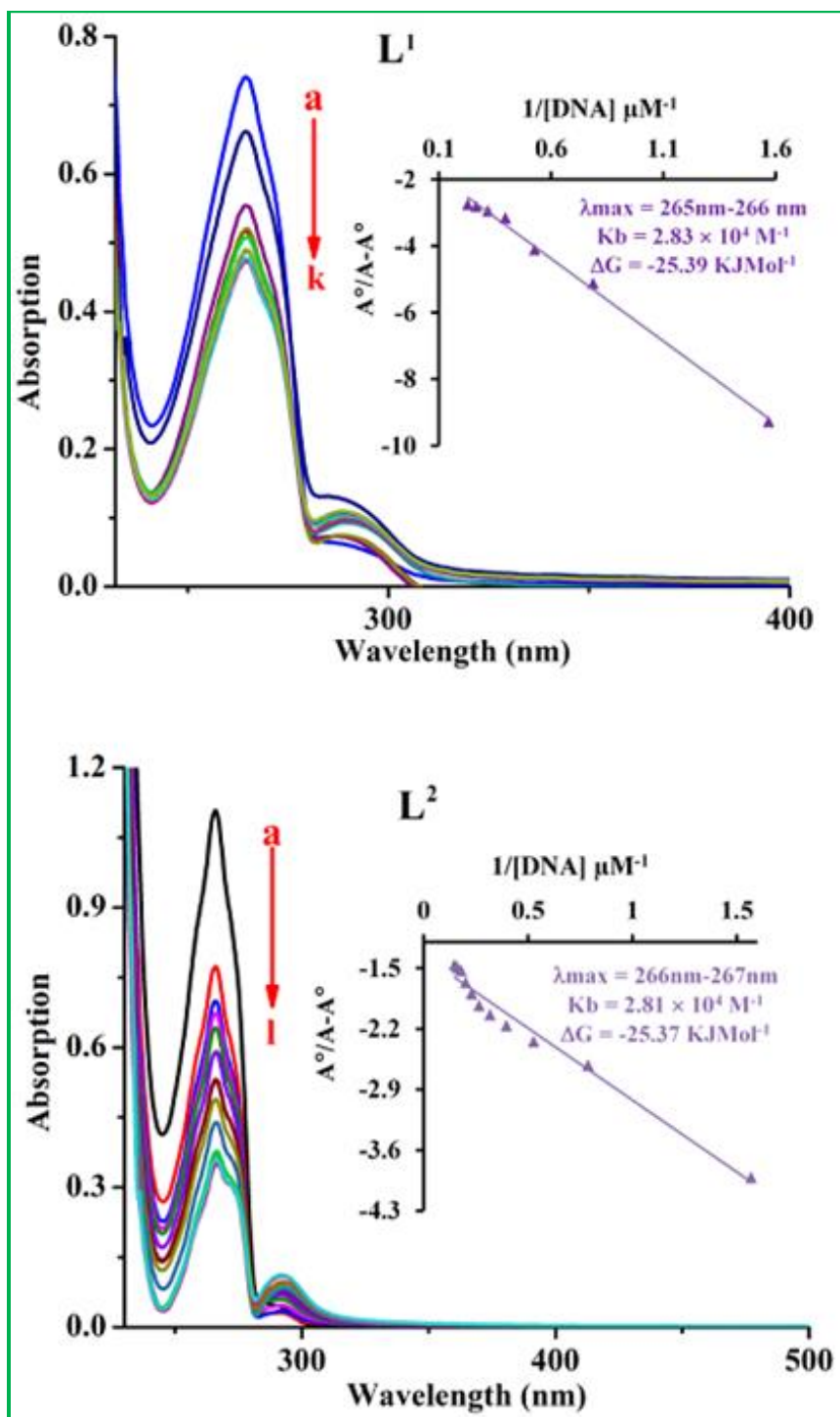


Figure S3. UV-visible absorption spectra of ligand acids **L¹** and **L²** in the absence (a in each case) and in the presence of incremental addition, i.e., 0.63-6.631 μM (**L¹**), and 0.63-4.41 μM (**L²**), respectively. Whereas the inside graph reveals the values of K_b and ΔG calculated from graph plotted between the absorption and DNA concentration.

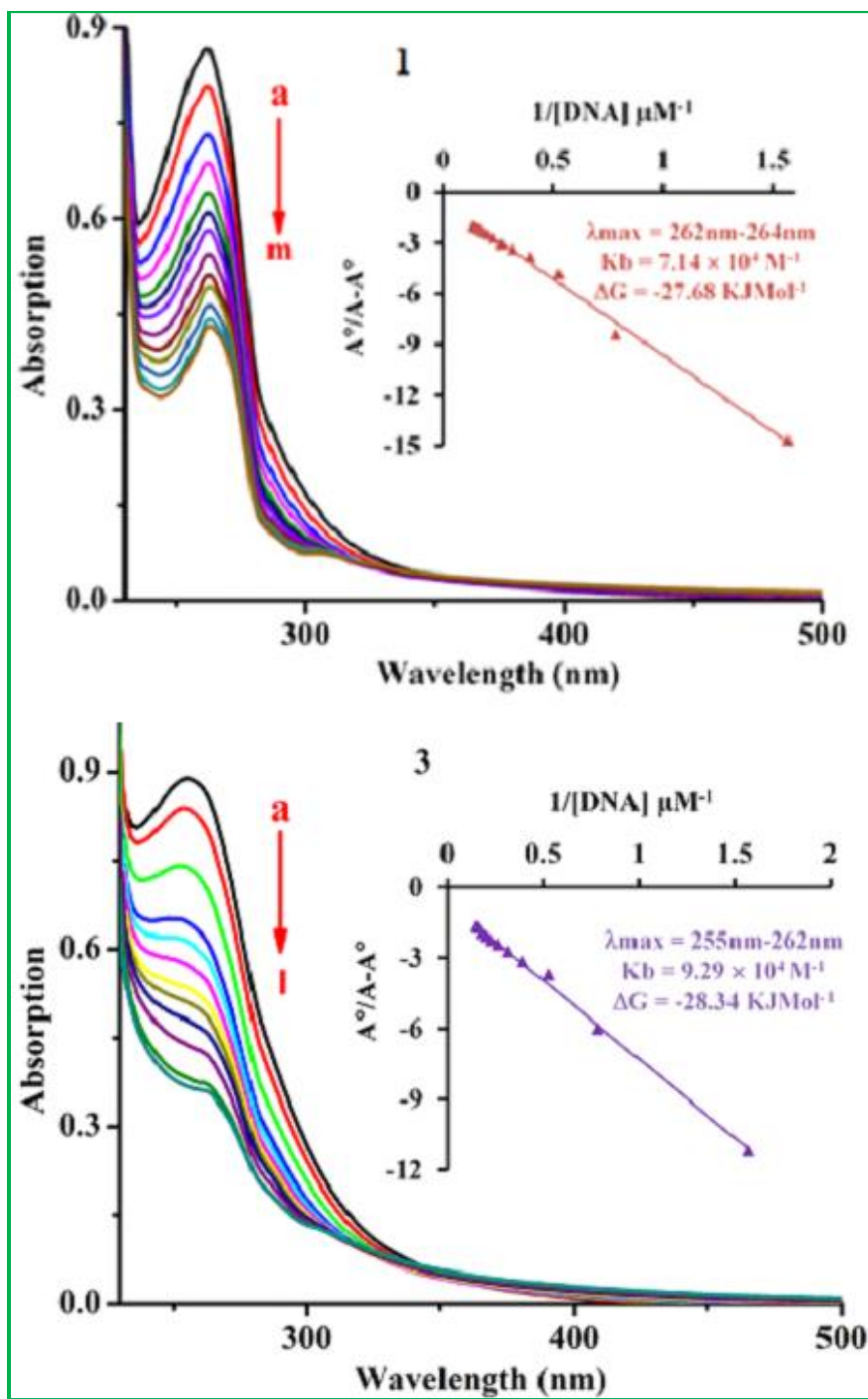


Figure S4. UV-visible absorption spectra of complexes **1** and **3** in the absence (**a** in each case) and in the presence of incremental addition, i.e., 0.63-8.19 μM (**1**), 0.63-5.67 μM (**3**, respectively). Whereas the inside graph reveals the values of K_b and ΔG calculated from graph plotted between the absorption and DNA concentration.

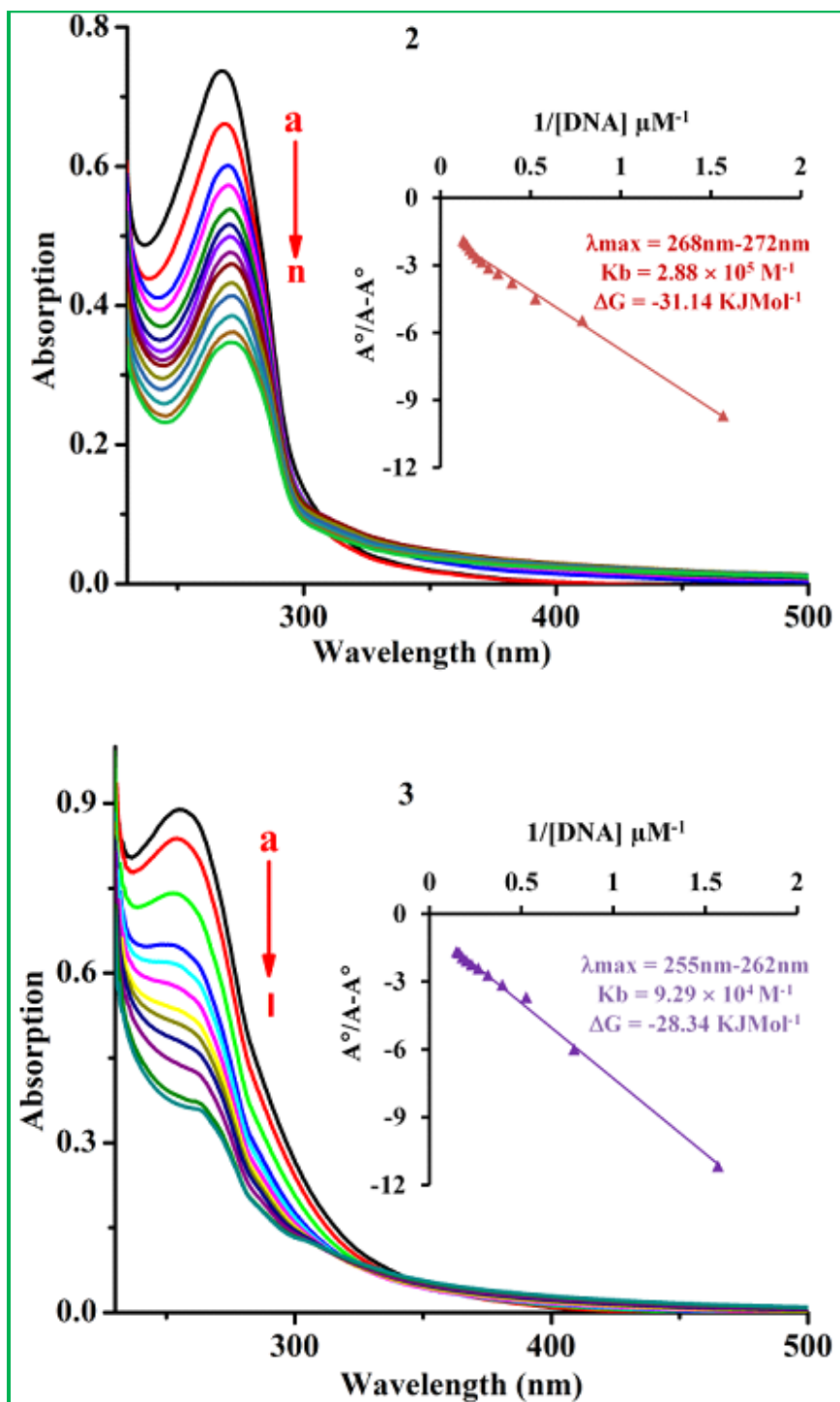


Figure S5. UV-visible absorption spectra of complexes **2** and **3** in the absence (**a** in each case) and in the presence of incremental addition, i.e., 0.63-8.19 μM (**2**), 0.63-5.04 μM (**3**, respectively. Whereas the inside graph reveals the values of K_b and ΔG calculated from graph plotted between the absorption and DNA concentration.

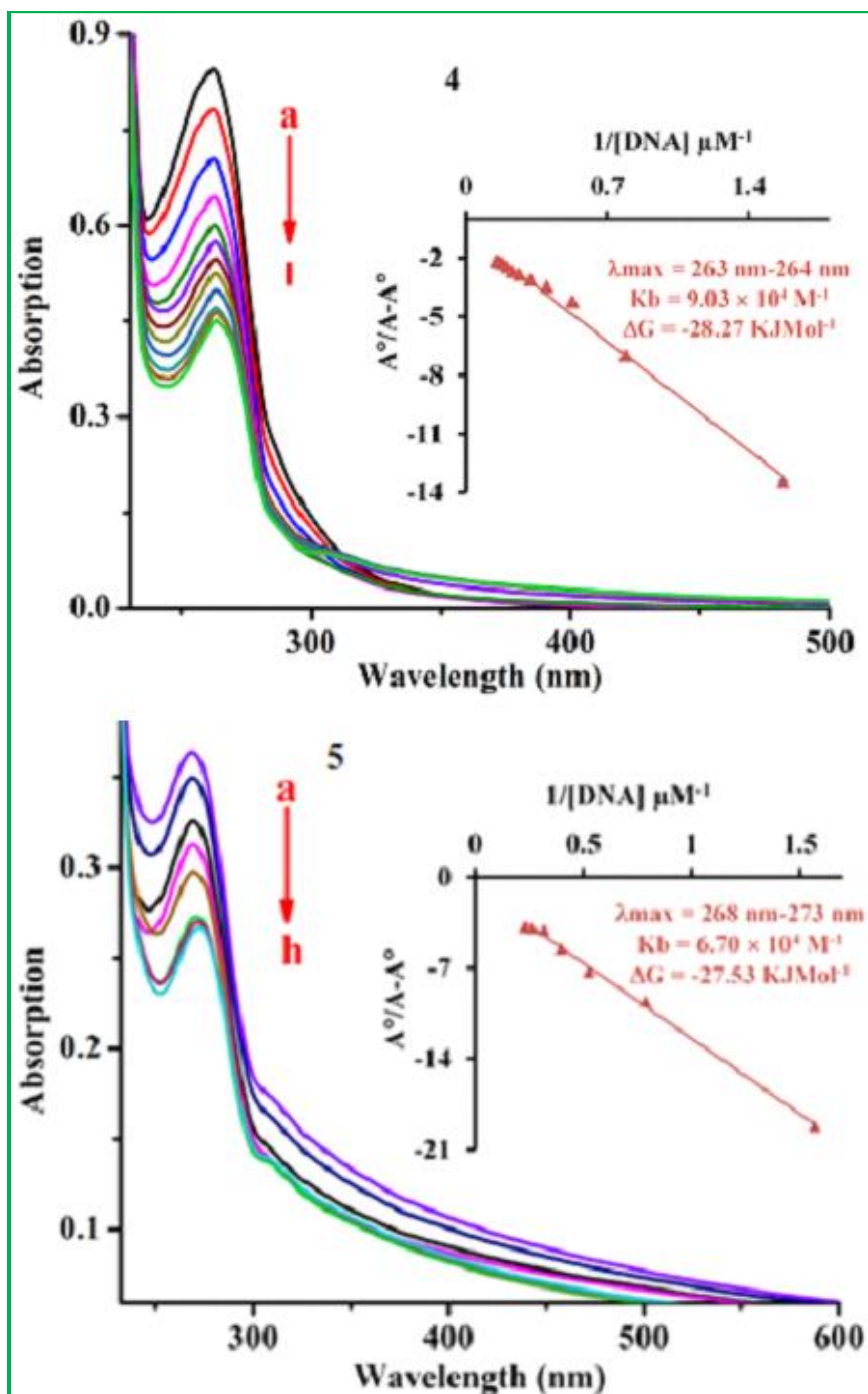


Figure S6. UV-visible absorption spectra of complexes **4** and **5** in the absence (a in each case) and in the presence of incremental addition, i.e., 0.63-5.04 μM (**4**) and 0.63-4.41 μM (**5**), respectively. Whereas the inside graph reveals the values of K_b and ΔG calculated from graph plotted between the absorption and DNA concentration.

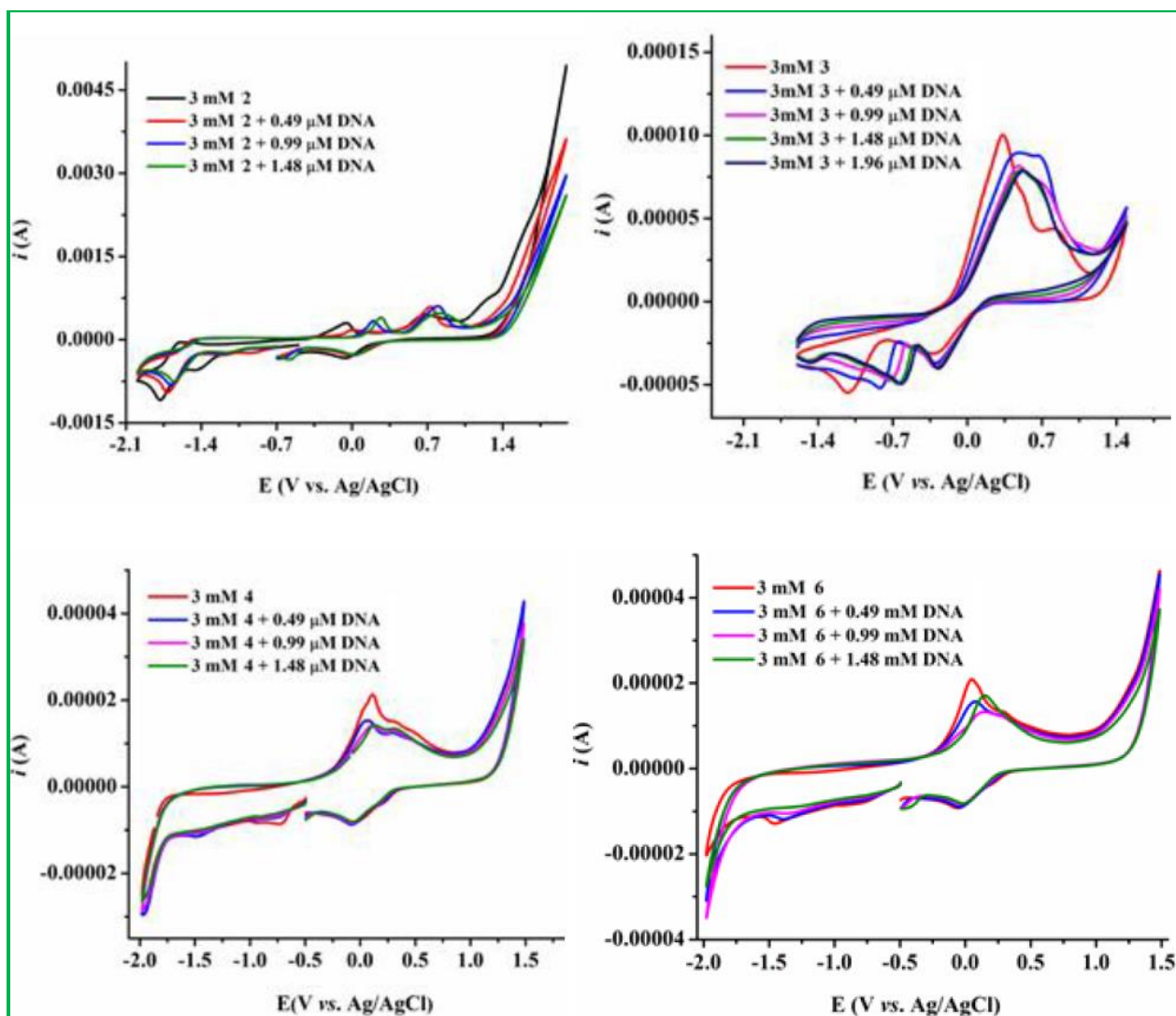


Figure S7: Cyclic voltammograms of the complexes 2, 3, C4 and 6 in the presence of DNA

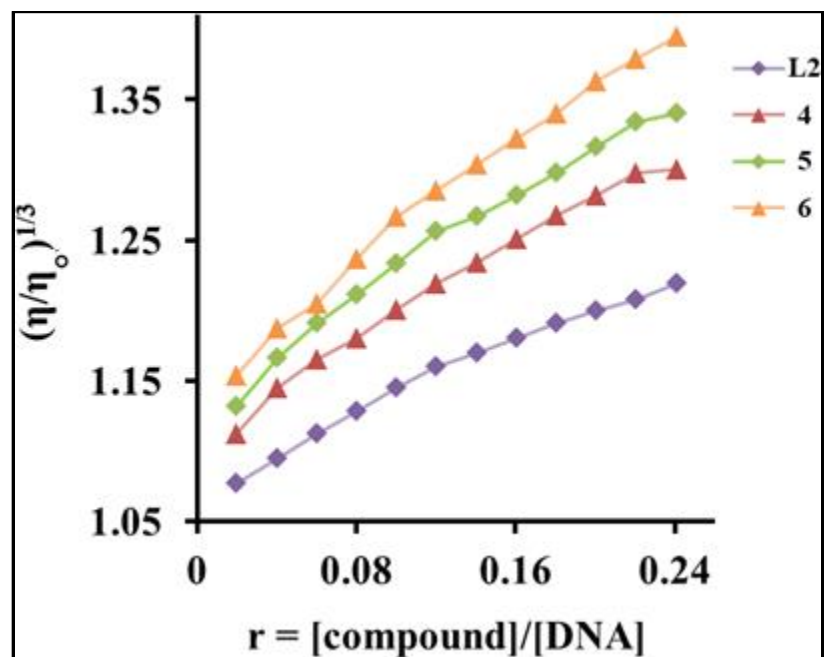


Figure S8: Graph presenting the effect on viscosity of SS-DNA by the incremental addition of L² and its complexes 4-6