Electronic Supplementary Material (ESI) for Dalton Transactions

Supplementary Material

DNA interaction studies by linear dichroism, gel electrophoresis and PCR of Cu(II), Ni(II) and Zn(II) functionalized Salphen complexes.

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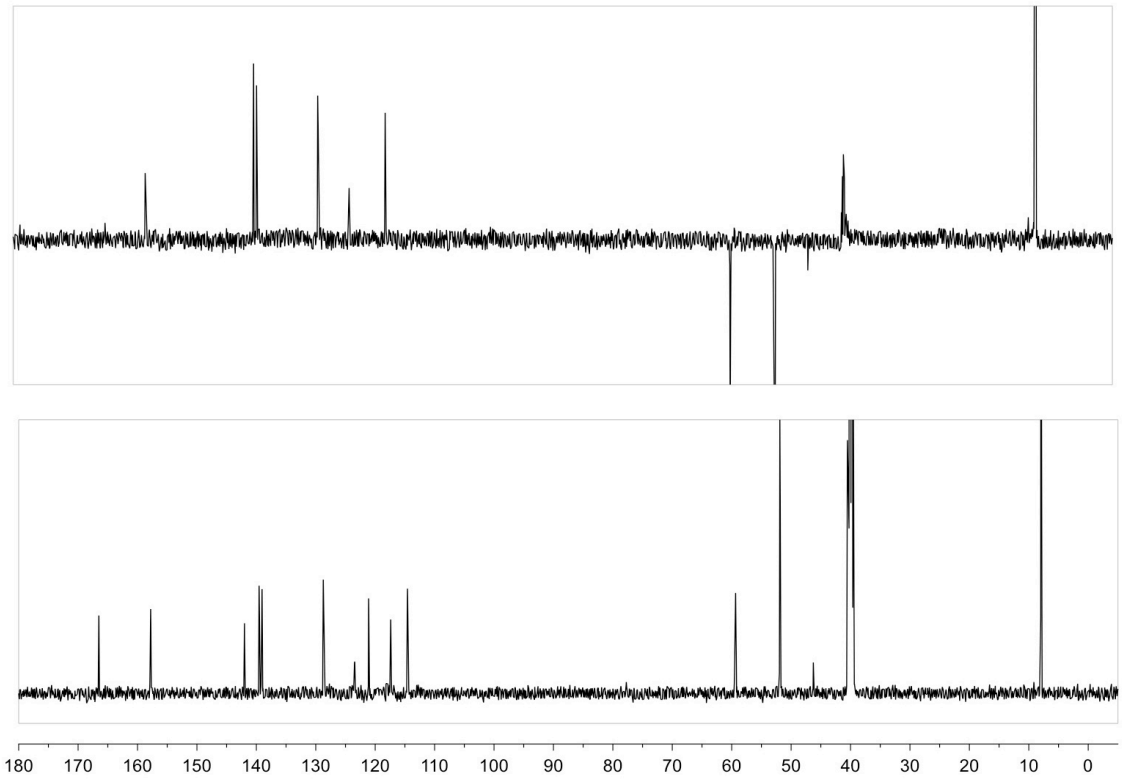

Figure S1 - ^{13}C NMR and DEPT (125 MHz, DMSO) spectra of NiL^{2+}

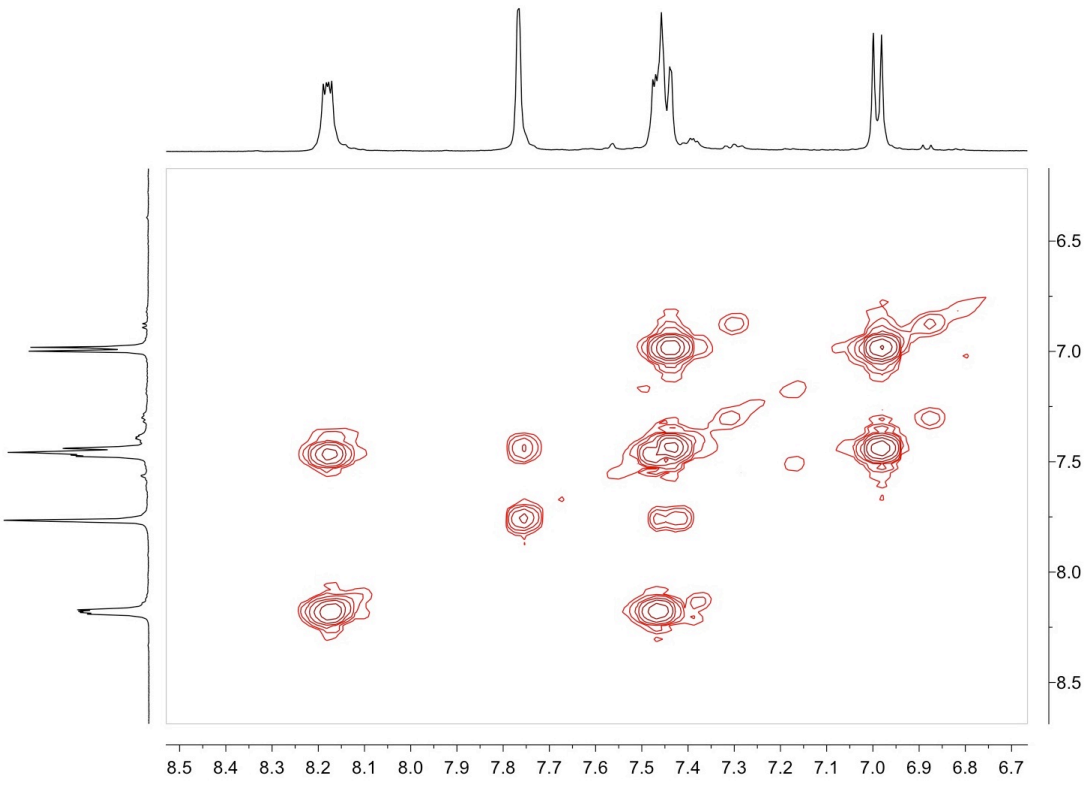

Figure S2 - COSY (500 MHz, DMSO) spectrum of NiL^{2+}

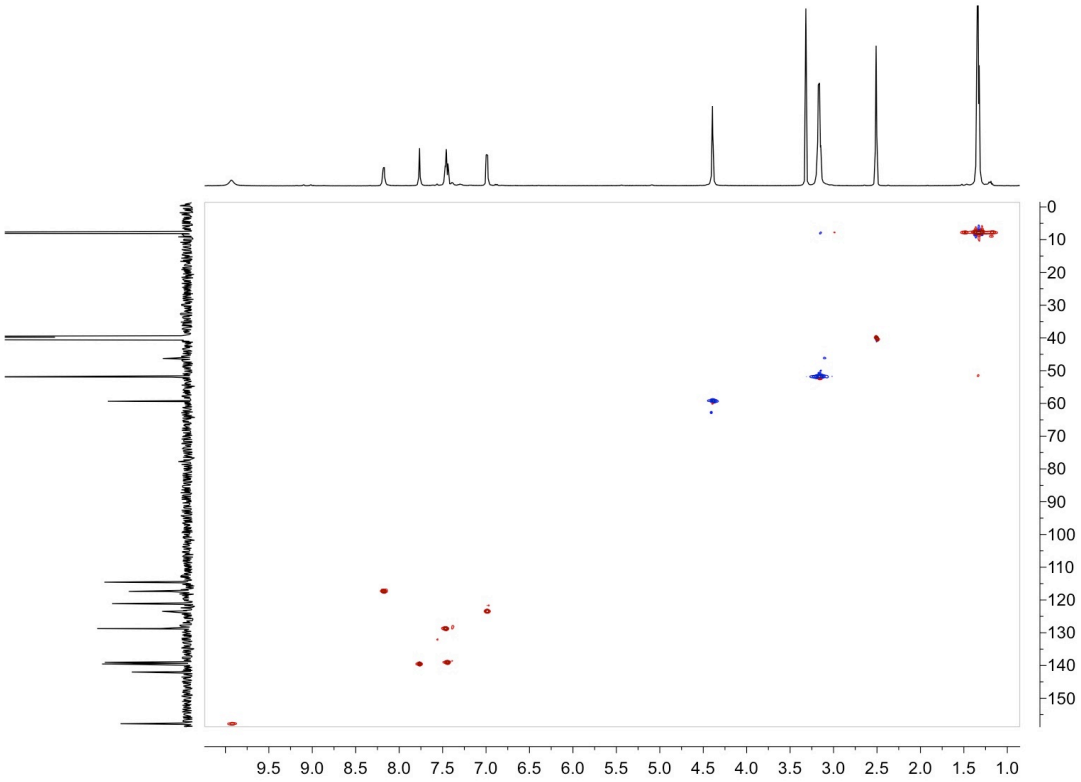

Figure S3 - HSQC (500 MHz, DMSO) spectrum of NiL^{2+}

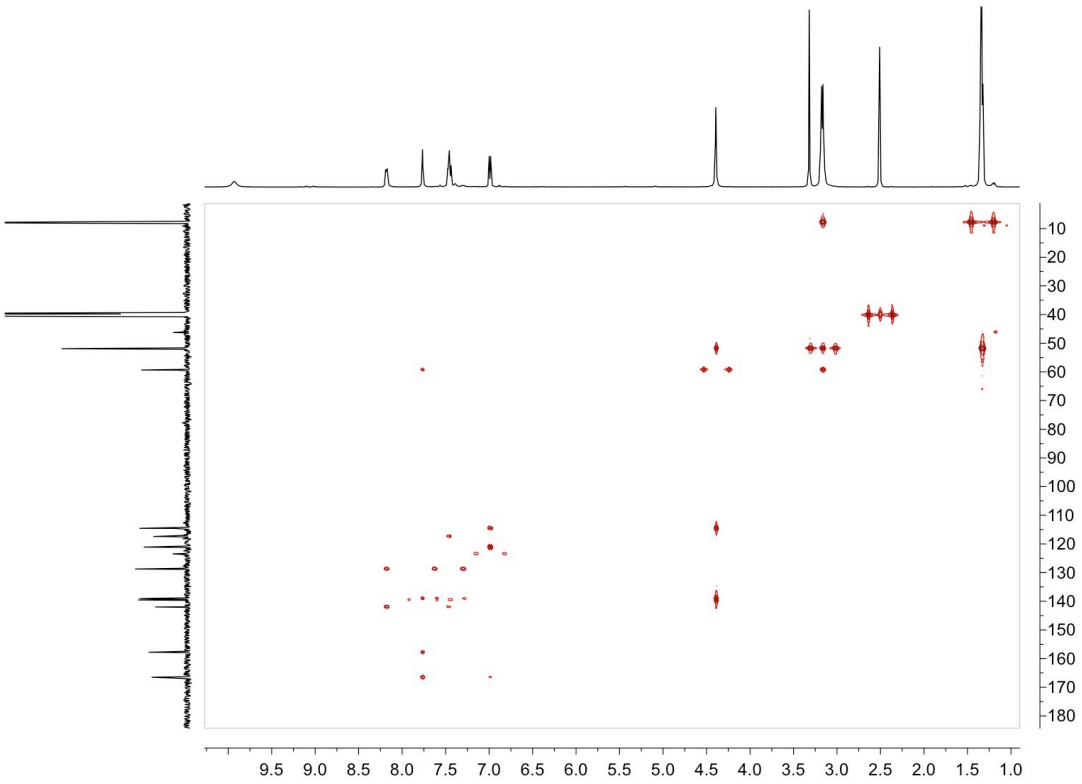

Figure S4 - HMBC (500 MHz, DMSO) spectrum of NiL^{2+}

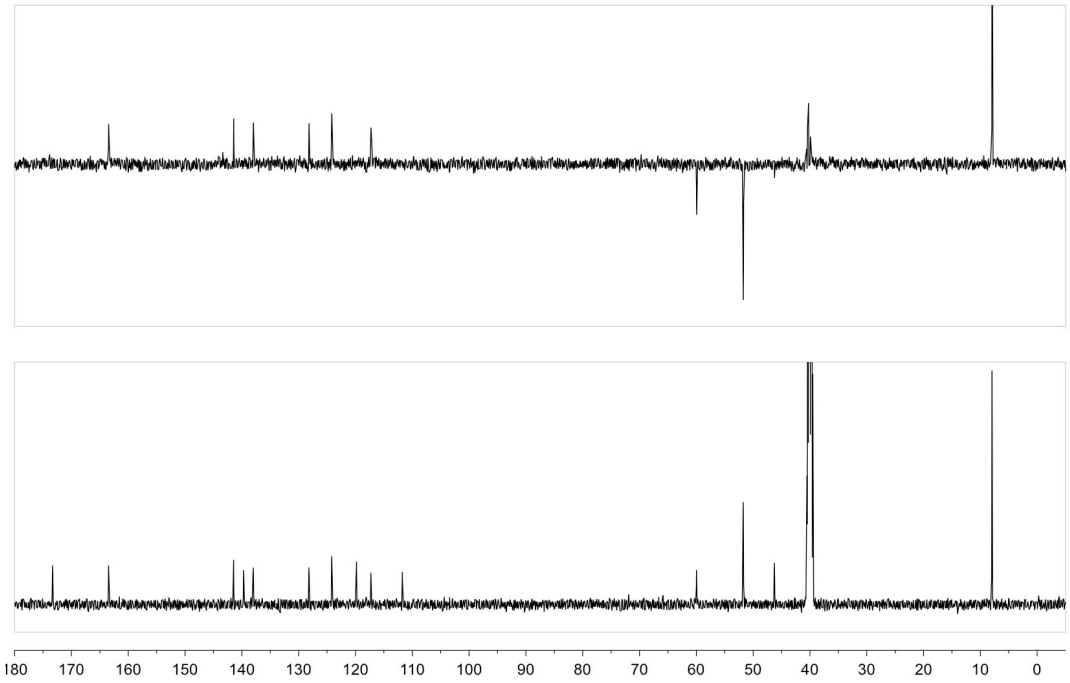

Figure S5 - ^{13}C NMR and DEPT (125 MHz, DMSO) spectra of ZnL^{2+}

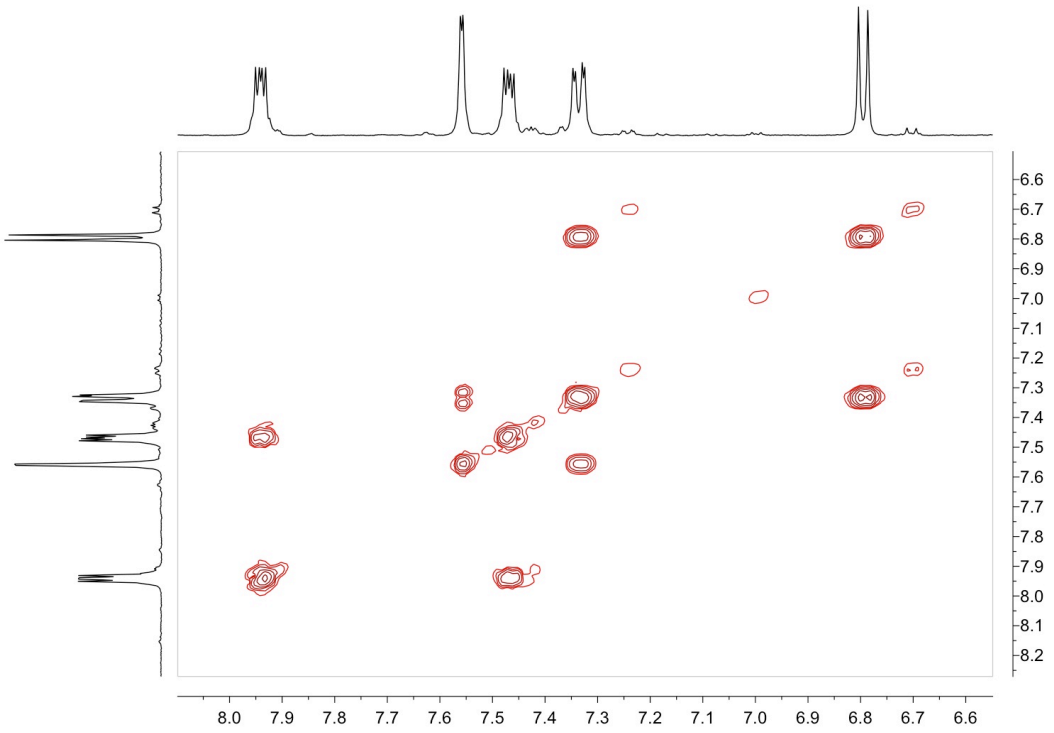

Figure S6 – COSY (500 MHz, DMSO) spectrum of ZnL^2

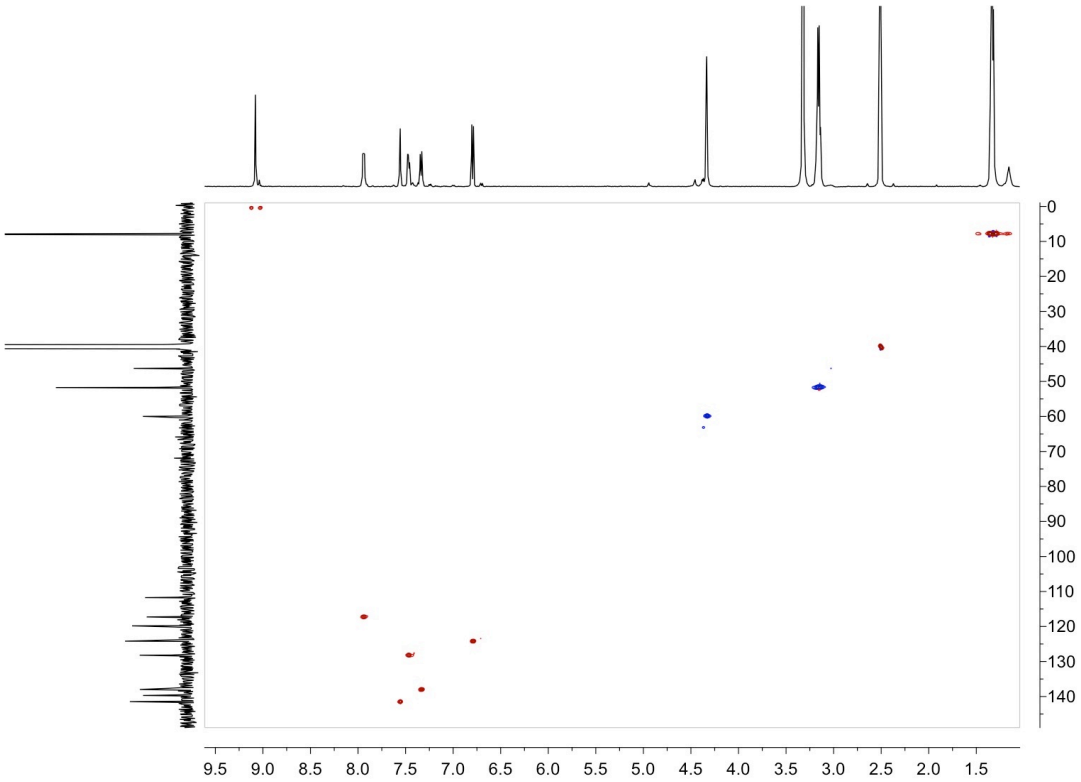

Figure S7 - HSQC (500 MHz, DMSO) spectrum of ZnL^{2+}

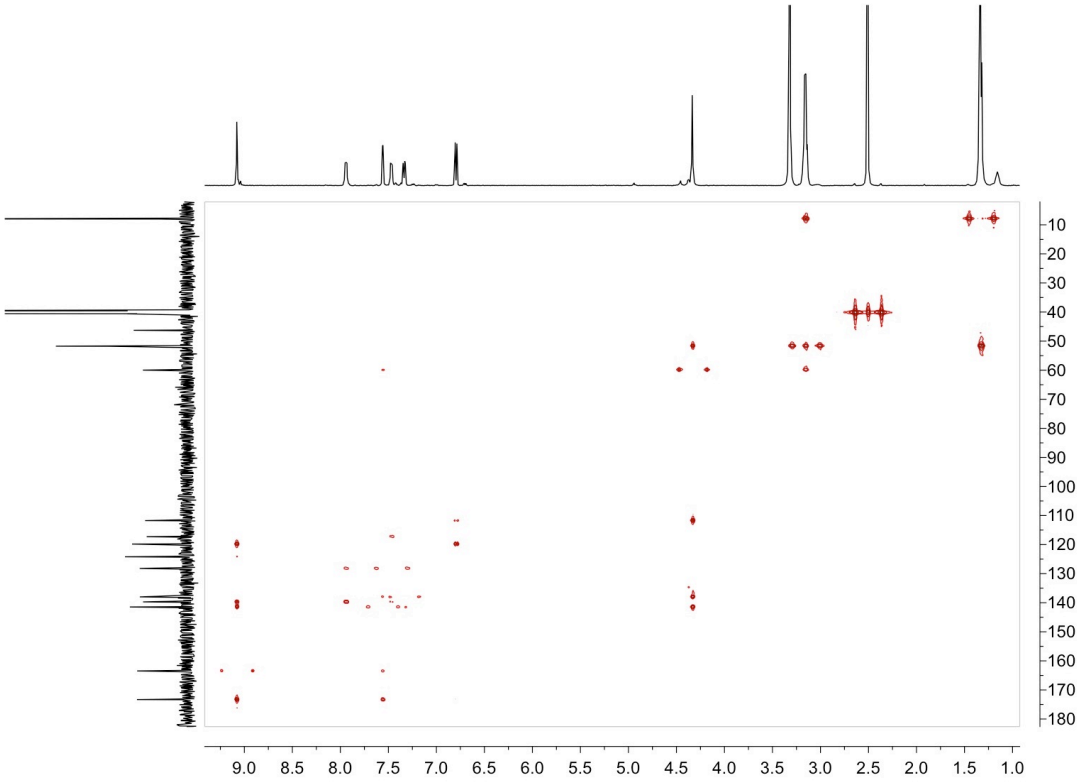

Figure S8 - HMBC (500 MHz, DMSO) spectrum of ZnL^{2+}

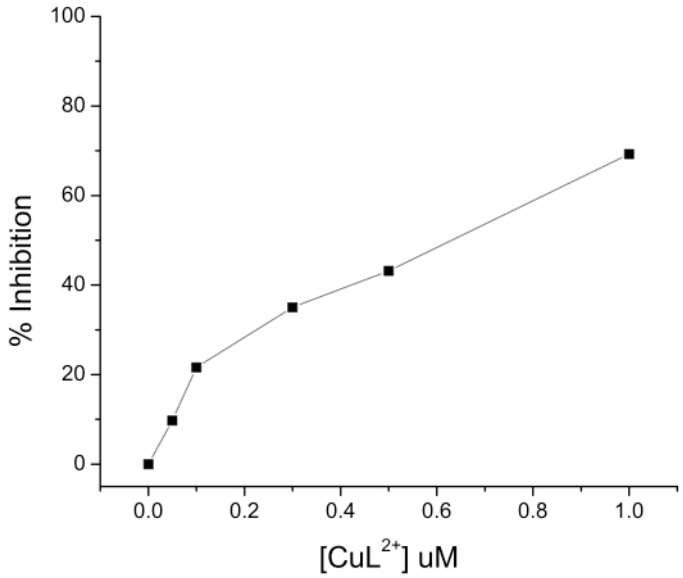

Figure S9 - PCR inhibition of CuL^{2+} measured as percentage of the control.

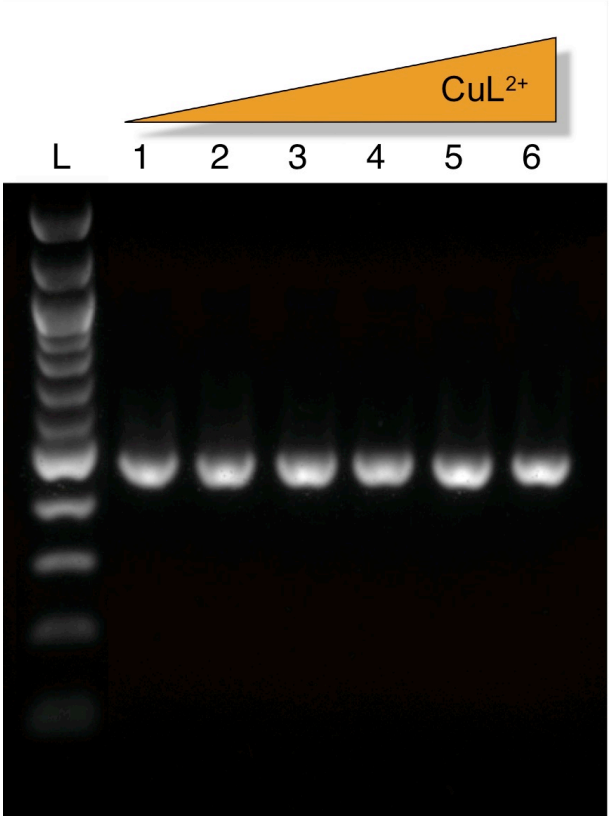

Figure S10 - Incubation of CuL^{2+} complexes with PCR products. 1) control; 2) CuL^{2+} 0.5 µM; 3) CuL^{2+} 1 µM; 4) CuL^{2+} 3 µM; 5) CuL^{2+} 5 µM; 6) CuL^{2+} 10 µM.

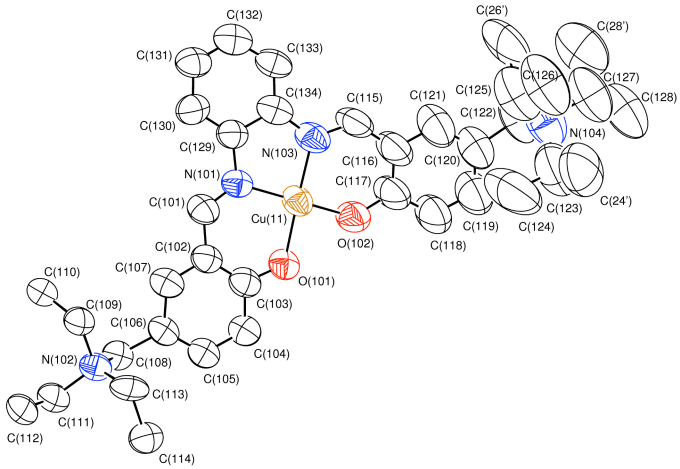

Figure S11 - Ortep view of the second of the two crystallographically independent copper complexes of CuL^{2+} with ellipsoids drawn at the 50 % probability level. Three methyl groups, C(124)/C(24'), C(126)/C(26') and C(128)/C(28') are disordered over two positions each. The perchlorate ions, benzene, nitromethane and water molecules and hydrogen atoms have been omitted for clarity.

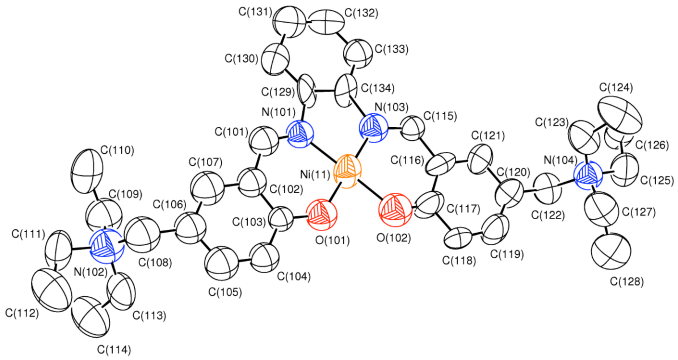

Figure S12 - Ortep view of the second of the two crystallographically independent copper complexes of NiL^{2+} with ellipsoids drawn at the 50 % probability level. The perchlorate ions, water molecules and hydrogen atoms have been omitted for clarity.