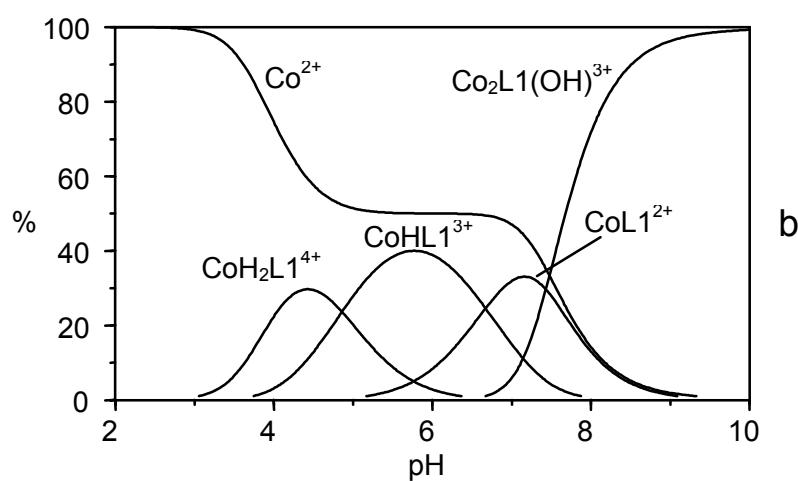
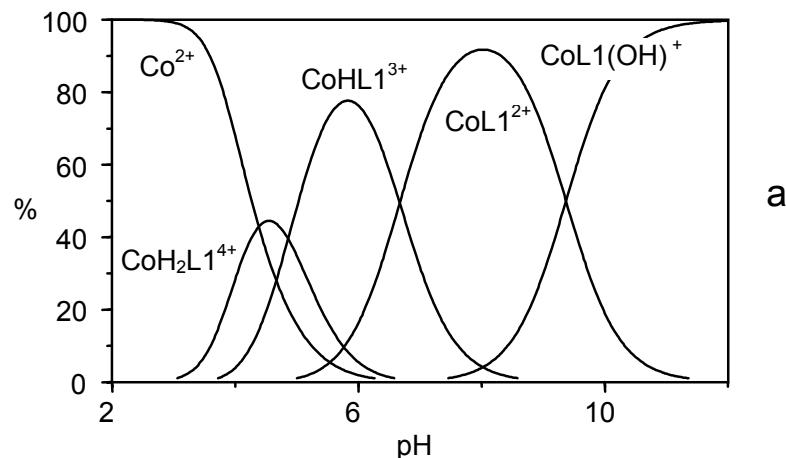


**Electronic Supplementary Information**

Figure S1. Distribution diagrams of the complexes formed as a function of pH in the system Co(II)-L1. a)  $[Co(II)] = [L1] = 1 \times 10^{-3}$  M; b)  $[L1] = 1 \times 10^{-3}$  M,  $[Co(II)] = 2[L1]$ .

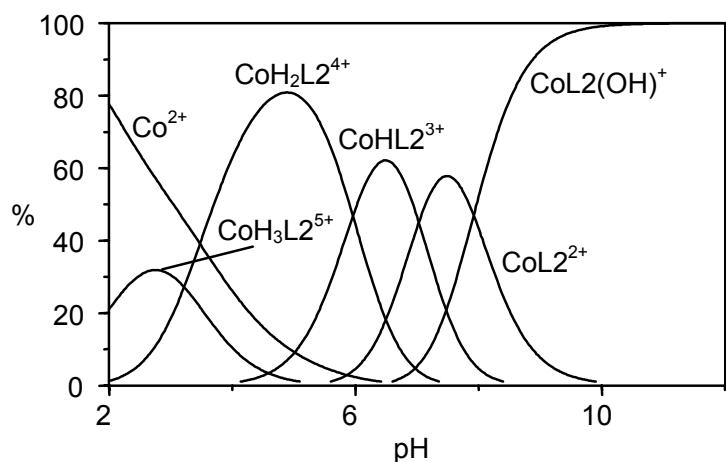


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Figure S2. Distribution diagrams of the complexes formed as a function of pH in the system Co(II)-L2.  $[Co(II)] = [L_2] = 1 \times 10^{-3} M$ .

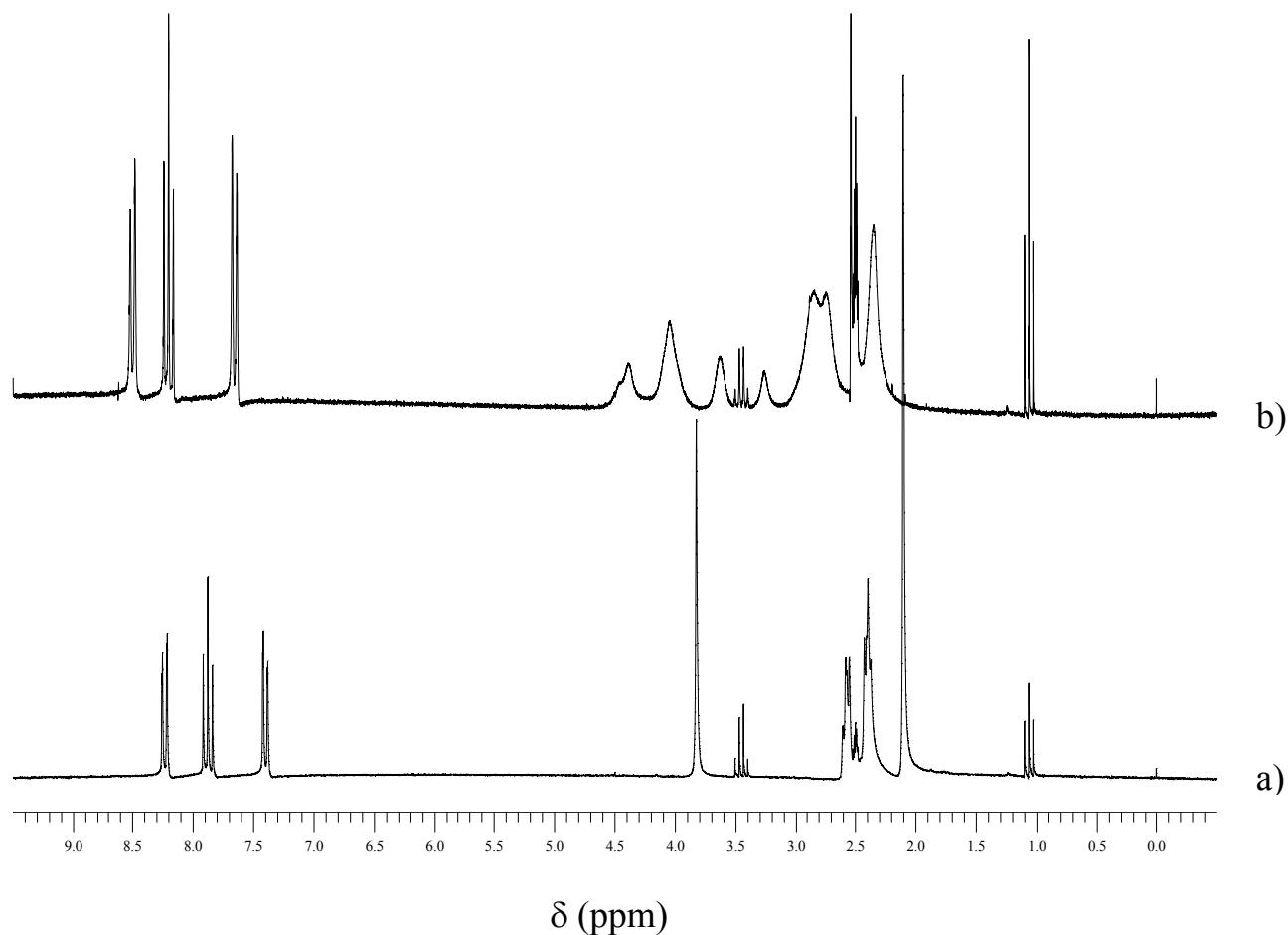


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Figure S3.  $^1\text{H}$ -NMR spectra of a) free ligand L1 and b)  $[\text{CdL1}]^{2+}$  complex in  $\text{DMSO}-d_6$ .



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Figure S4.  $^1\text{H}$ -NMR spectra of a) free ligand L2 and b)  $[\text{CdL2}]^{2+}$  complex in  $\text{DMSO}-d_6$ .

