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Supplementary Material

Self-Assembly of an Octanuclear High-Spin Fe(II) Molecular Cage

Coordination Cage

Feng Li,[A,D] Natasha F. Sciortino,[B] Jack K. Clegg,[C] Suzanne M. Neville,[B] and Cameron J. Kepert[B]

[A]School of Science and Health, University of Western Sydney, Locked Bag 1797, Penrith, NSW 2751, Australia.

[B]School of Chemistry, The University of Sydney, NSW 2006, Australia.

[C]School of Chemistry and Molecular Biosciences, The University of Queensland, Brisbane St. Lucia, Qld 4072, Australia.

[D]Corresponding author. Email: feng.li@uws.edu.au

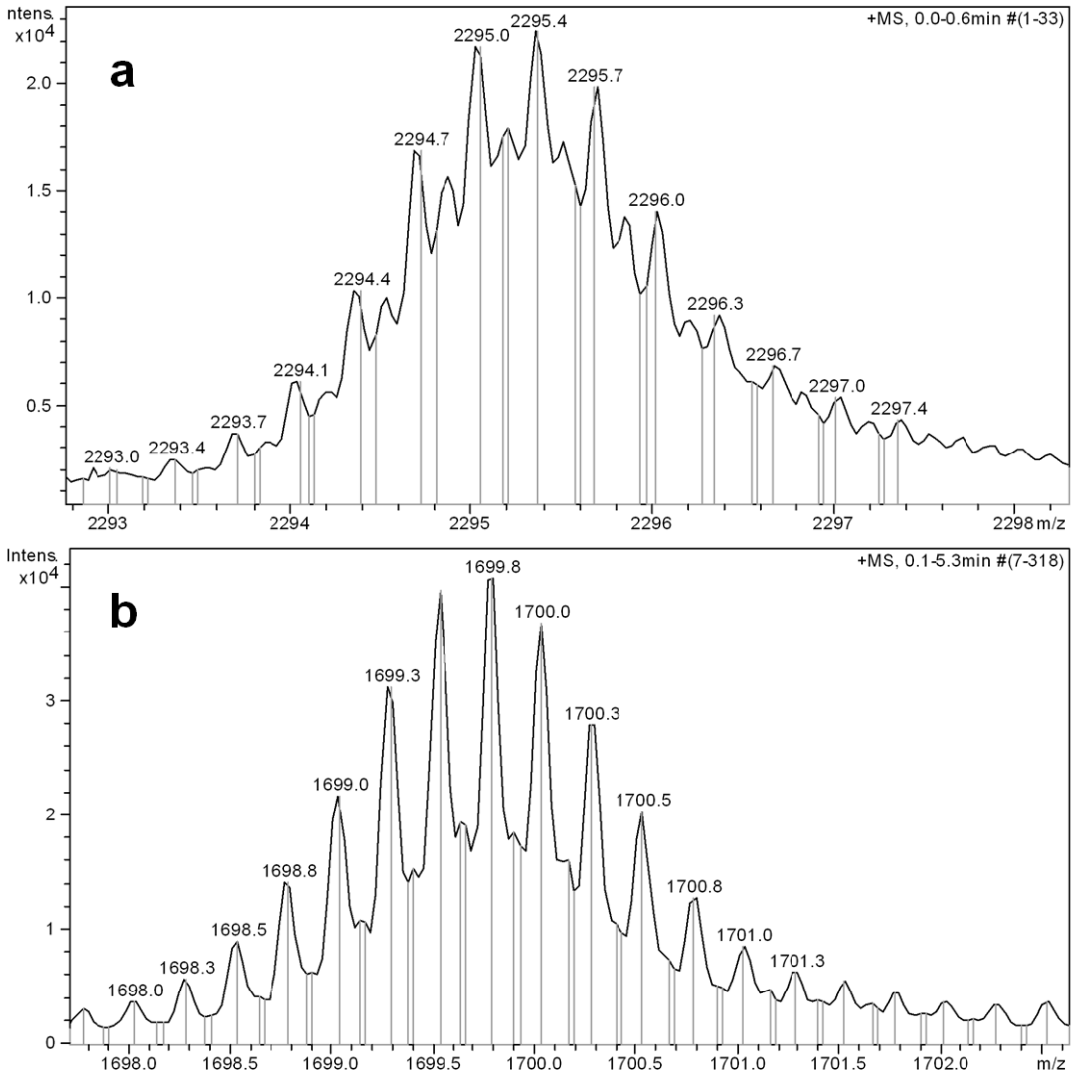

Figure S1. The ESI-mass spectra recorded on microTOF-Q instruments spectrometer of molecular cage $[Fe_8L_{12}][BF_4]_{16}$. (a) The experimentally obtained isotope patterns of the $\{[Fe_8L_{12}][BF_4]_{13}\}^{3+}$ with the simulated spectrum on the basis of natural isotope abundances (b) The experimentally obtained isotope patterns of the $\{[Fe_8L_{12}][BF_4]_{12}\}^{4+}$ with the simulated spectrum on the basis of natural isotope abundances.

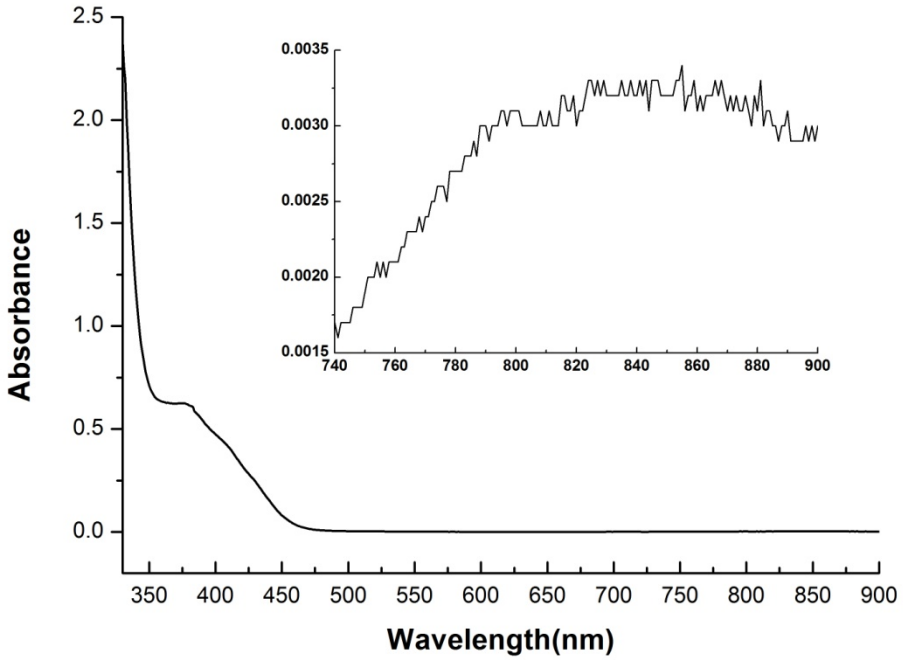

Figure S2 The UV-Vis spectrum of the coordination cage $[Fe_8L_{12}][BF_4]_{16}$ in CH_3CN**.** The inset shows the low intensity absorbance in the region 740-900 nm.