High-frequency EPR on high-spin transitions-metal sites

Mathies, G.

Appendix A

Continuous-wave 275.7 GHz EPR spectra of rubredoxin from *Pyrococcus furiosus* and *Megasphaera elsdenii*

Figure A.1 and A.2 show the 275.7 GHz cw EPR spectra of frozen solutions of rubredoxin originating from *P. furiosus* and *M. elsdenii*.

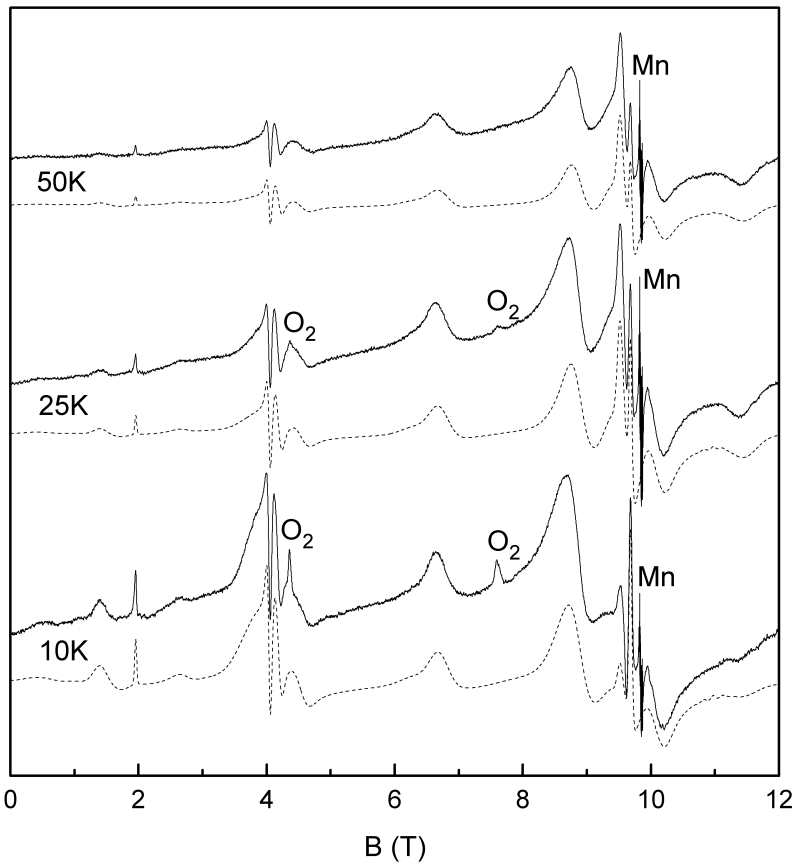

Figure A.1: The 275.7 GHz cw EPR spectra of a 10 mM frozen solution of the protein rubredoxin from *P. furiosus* at three temperatures. Experimental conditions: modulation amplitude: 3 mT, time constant: 1 s, scan rate: 2 mT/s, microwave power: 1 μW. The solid lines are the experimentally observed spectra and the dashed lines are the spectra calculated by EasySpin with the parameters given in Table 2.1.

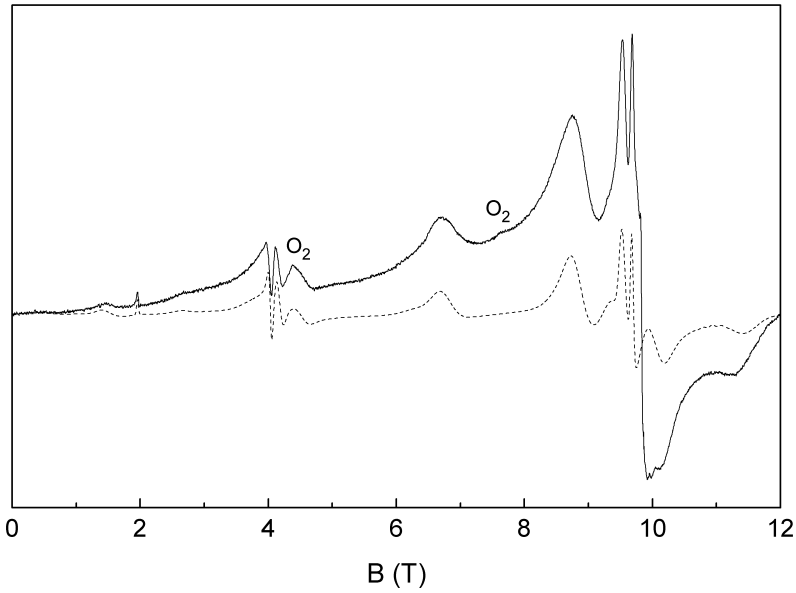

Figure A.2: The 275.7 GHz cw EPR spectrum of a 10 mM frozen solution of the protein rubredoxin from *M. elsdenii* at 25 K. Experimental conditions: modulation amplitude: 3 mT, time constant: 1 s, scan rate: 2 mT/s, microwave power: 1 μW. The solid line is the experimentally observed spectrum and the dashed line is the spectrum calculated by EasySpin with the parameters given in Table 2.1.

A. Continuous-wave 275.7 GHz EPR spectra of rubredoxin from *Pyrococcus furiosus* and *Megasphaera elsdenii*