

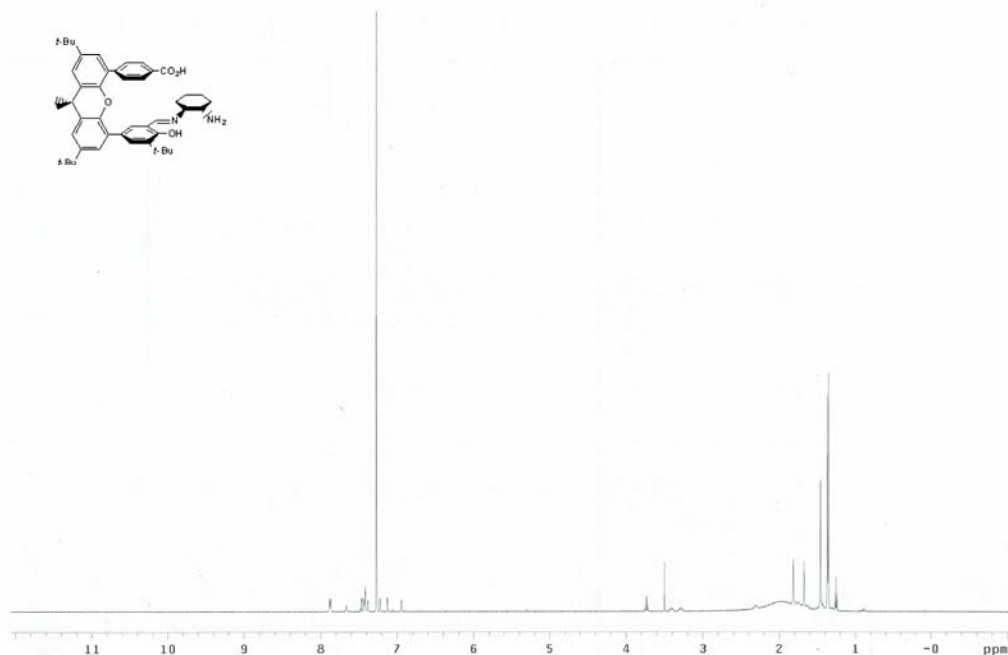
Supporting Information for

Catalase and Epoxidation Activity of Manganese Salen  
Complexes Bearing Two Xanthene Scaffolds

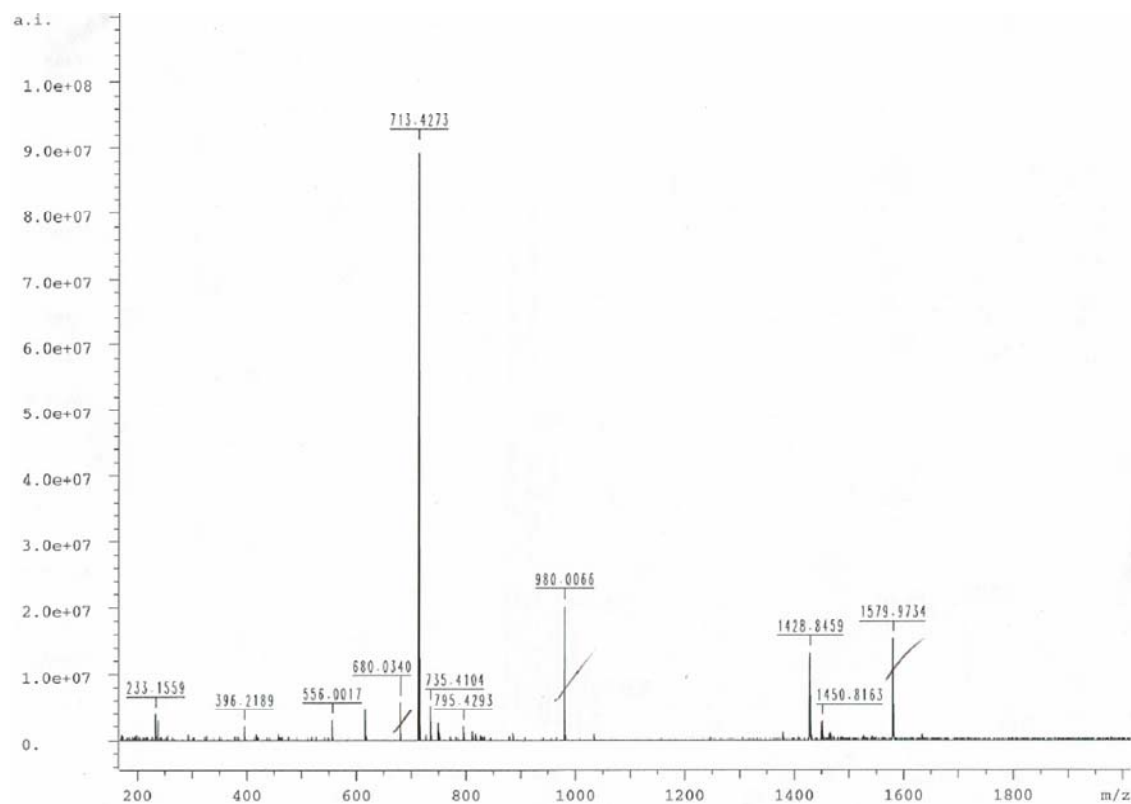
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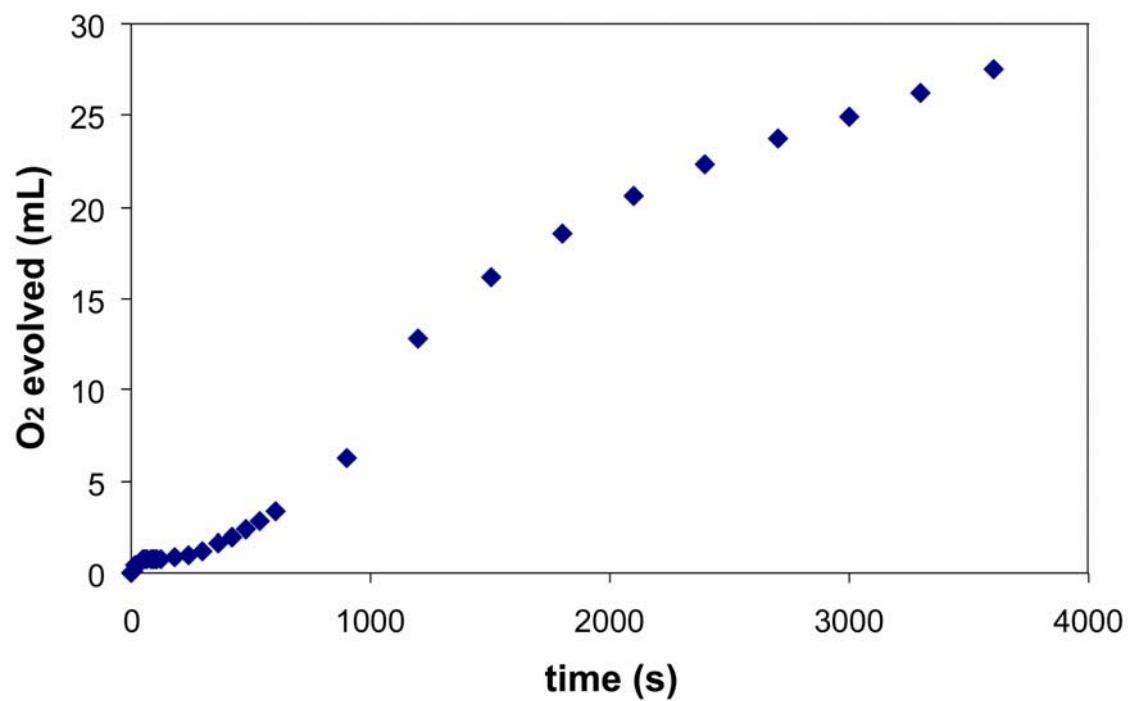
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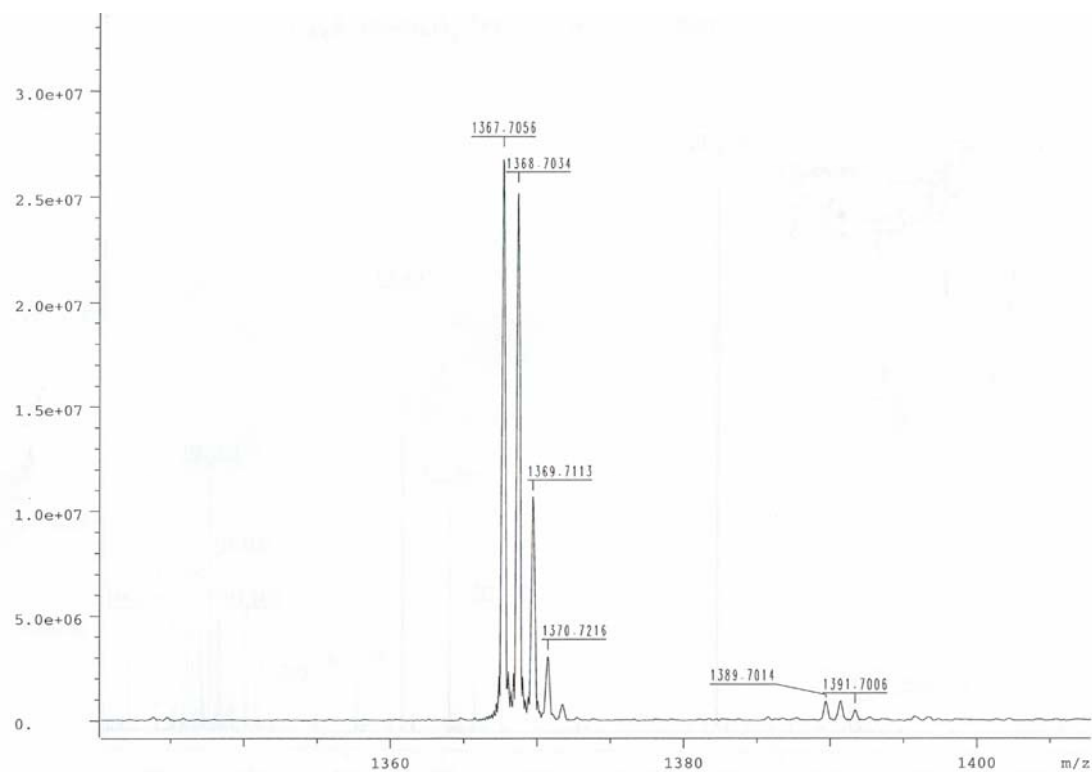
**Figure S1.1.**  $^1\text{H}$  NMR Spectra for —(ONN)— ligand impurity resulting from the condensation reaction of **13** with an excess of (1*R*,2*R*)-(–)-1,2-diaminocyclohexane.



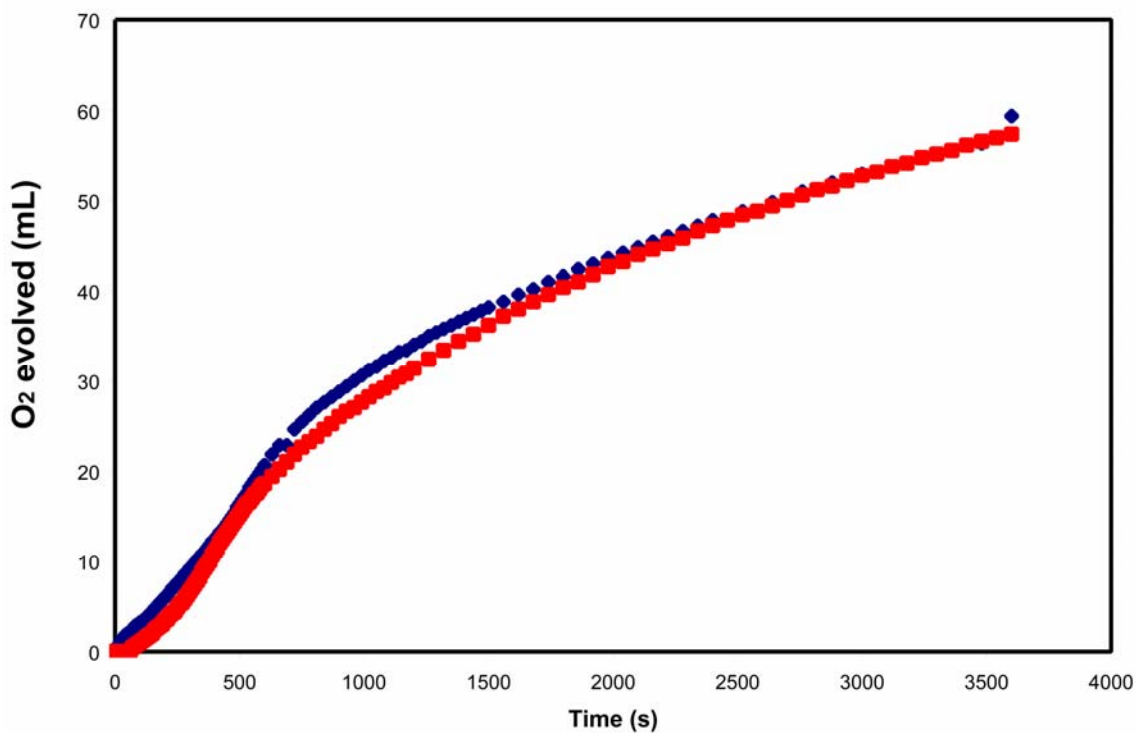
**Figure S1.2.** Mass Spectra for —(ONN)— ligand resulting from the condensation reaction of **13** with an excess of (1*R*,2*R*)-(–)-1,2-diaminocyclohexane. The peaks with a slash through them correspond to the added internal standard.



**Figure S2.1.** Oxygen release from hydrogen peroxide dismutation catalyzed by manganese compound **18** over one hour.



**Figure S2.2.** Mass spectra evidence of the doubly deprotected species from the crude product isolated 20 minutes after addition of H<sub>2</sub>O<sub>2</sub> to manganese catalyst **18**.



**Figure S3.** Oxygen release from hydrogen peroxide dismutation catalyzed by manganese compound **15** in (i) 2:1 dichloromethane:methanol (♦) and (ii) 2:1 tetrahydrofuran:methanol (■) over one hour under the same substrate and catalyst conditions.