Electronic Supplementary Information for Dalton Transactions

Supporting Information

Lithium Complexes Supported by Amine Bis-Phenolate Ligands as Efficient Catalysts for Ring-Opening Polymerization of L-Lactide

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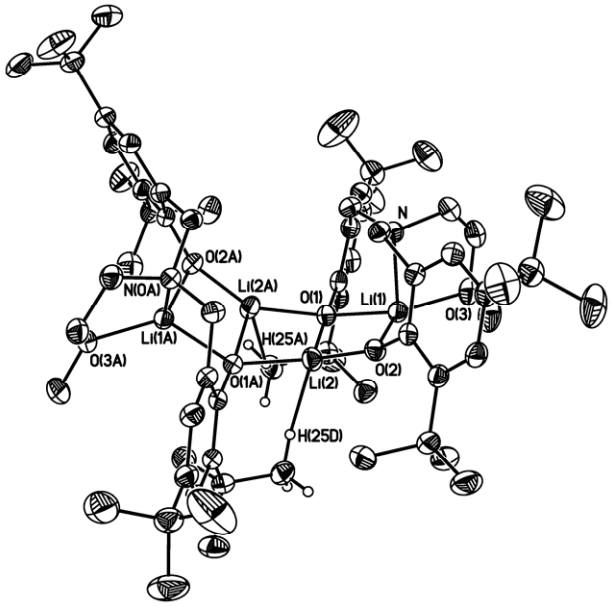

Fig. S1 Molecular structure of **3**. Selected bond lengths (Å): Li(1)-O(1), 1.987(3); Li(1)-O(2), 1.895(4); Li(2)-O(1), 1.936(4); Li(2)-O(2), 1.777(4); Li(2)-O(1A), 1.894(4); Li(2A)-O(1), 1.894(4); Li(1)-N, 2.002(4); Li(1)-O(3), 1.978(4); Li(1)-Li(2), 2.444(5); Li(2A)-Li(2), 2.403(7); Li(2)-H(25D), 2.224; Li(2A)-H(25A), 2.224. Only hydrogen atoms with interactions with lithium atoms are exhibited. Hexane and pentane molecules are removed for clarity.

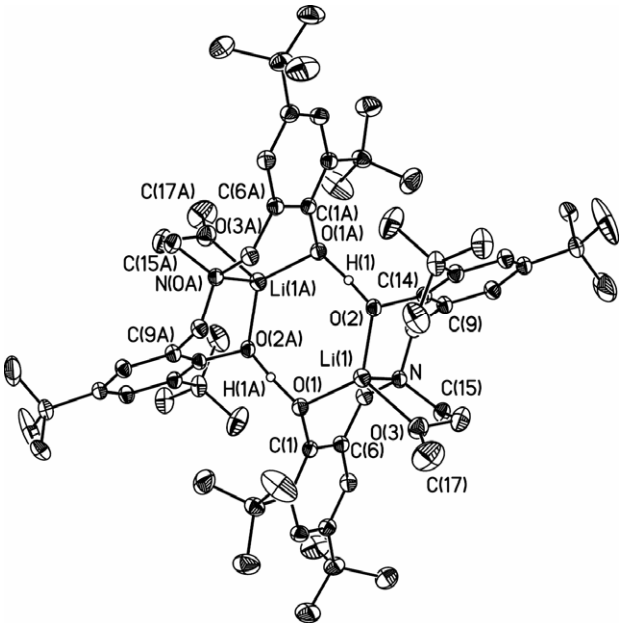

Fig. S2 Molecular structure of **5**. Selected bond lengths (Å): Li(1)-O(1), 1.928(4); Li(1)-O(2), 1.924(4); Li(1)-N, 2.058(4); Li(1)-O(3), 2.045(4); O(1)-C(1), 1.369(2); O(2)-C(14), 1.374(2). Only hydrogen atoms on the oxygen atoms of phenol are exhibited. Diethylether molecule is removed for clarity.

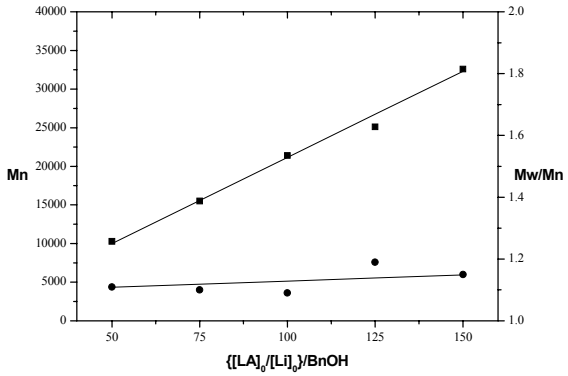

Fig. S3 Polymerization of L-Lactide initiated by **2** and BnOH in CH_2Cl_2 at room temperature.

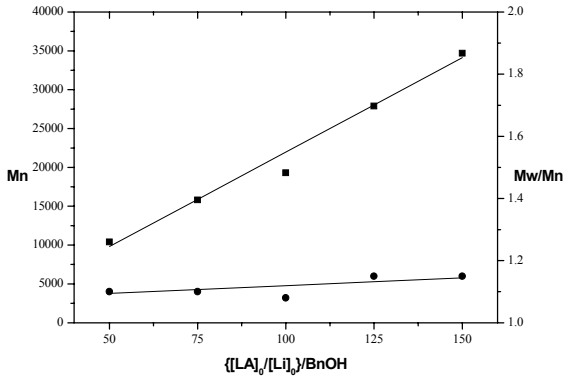

Fig. S4 Polymerization of L-Lactide initiated by **3** and BnOH in CH_2Cl_2 at room temperature.