## **Supporting Information**

## **Robust Chiral Zirconium Alkoxide Initiators for the Room-temperature Stereoselective Ring-opening Polymerisation of** *rac***-Lactide**

Amanda J. Chmura, David M. Cousins, Matthew G. Davidson, \* Matthew D. Jones, Matthew D. Lunn and Mary F. Mahon

## **Representative MALDI-TOF of the PLA prepared in solution.**

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% Intensity 0+ 699.0 2559.4 4419.8 6280.2 Mass (m/z)

Polymer prepared from  $(R-1)_2$ Zr $(O^iPr)_2$  with added water (entry 11 table 2)

Polymer prepared from  $(R-4)_2$ Zr(O<sup>i</sup>Pr)<sub>2</sub> (entry 6 table 2)

