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## **Supporting Information**

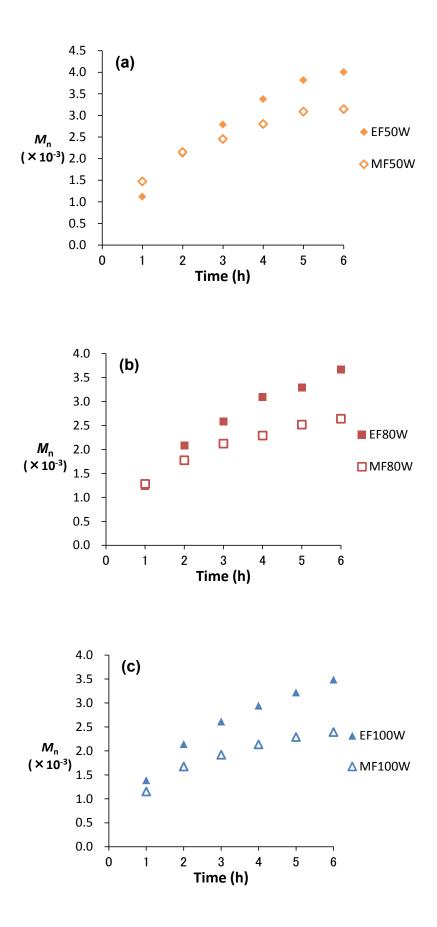


Figure S1.  $M_n$  profiles for solution polycondensation of L-LA catalyzed by Sc(OTf)<sub>3</sub> under EF

(filled symbol) or MF (open symbol) at 50 W (a), 80 W (b), and 100 W(c).

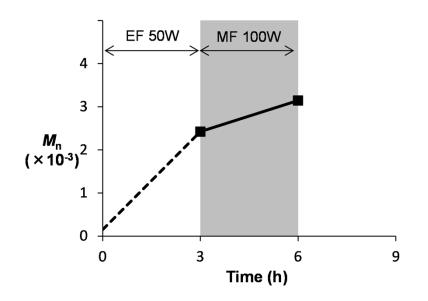


Figure S2. Solution polycondensation of L-LA catalyzed by Sc(OTf)<sub>3</sub> under alternating irradiation

of EF (50 W) and MF (100 W).