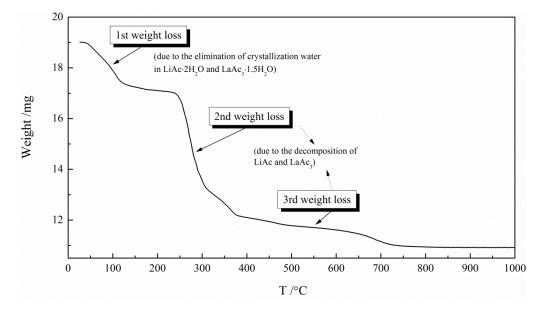
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## **Supporting Information**

## **TGA result**



**Fig. S1** TGA plot of the precursor powder that contains  $LiAc \cdot 2H_2O$ ,  $LaAc_3 \cdot 1.5H_2O$ , and  $TiO_2$  used for the synthesis of lithium lanthanum titanate.