**Supplementary materials**



**Figure S1.** The TGA curves of PLA (A) and PLLA (B) microspheres annealed at 40°, 70°, 90° and 120°C.

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**Figure S2.** The cooling curves of PLA (A) and PLLA (B) microspheres annealed at 40°, 70°, 90° and 120°C.



**Figure S3.** The first heating DSC curve of PLA\_90 combined with the 1st and 2nd derivatives of the heat flow.



**Figure S4.** The melting endotherms of indium beads placed on neat PLA and PLLA. The neat PLA and PLLA was performed by melting in DSC pan.



**Figure S5.** Deconvolution of diffraction curves of tested samples.