Supporting Information

Thermal Analysis of TPAC. The TGA curves represented in Figure S1 shows that the triphenyl coupled chitosan (TPAC) have two main decomposition stages with the first occurring in the range 21°C-68°C attributed to the evaporation of water with weight loss about 10%. The second decomposition stage occurs in the range 237°C-421°C due to thermal degradation with a weight loss about 58%. The thermal degradation study of TPAC showed good stability above 400°C. The differential scanning calorimetry (DSC) curves are represented in Figure S2. The sample was investigated using heating and cooling scans at 10°C min^{-1}. The TPAC showed an endothermic peak at 157°C.

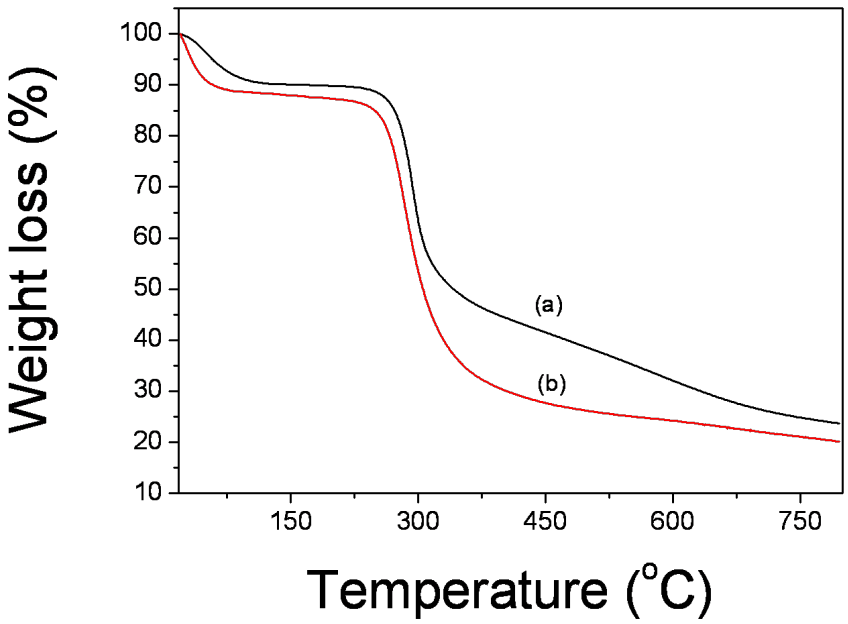

Figure S1. TG Analysis of (a) chitosan and (b) TPAC.

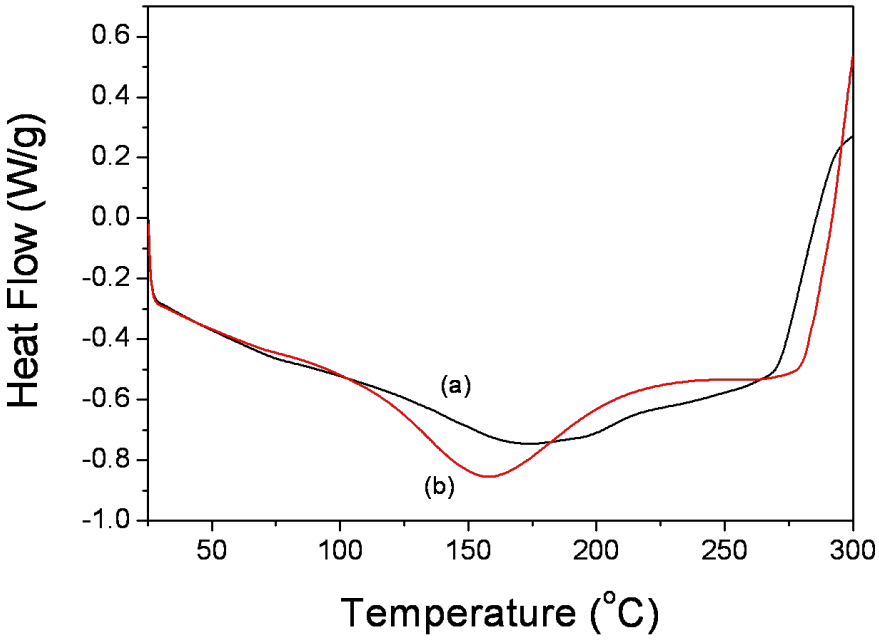

Figure S2. DSC curves of (a) chitosan and (b) TPAC.