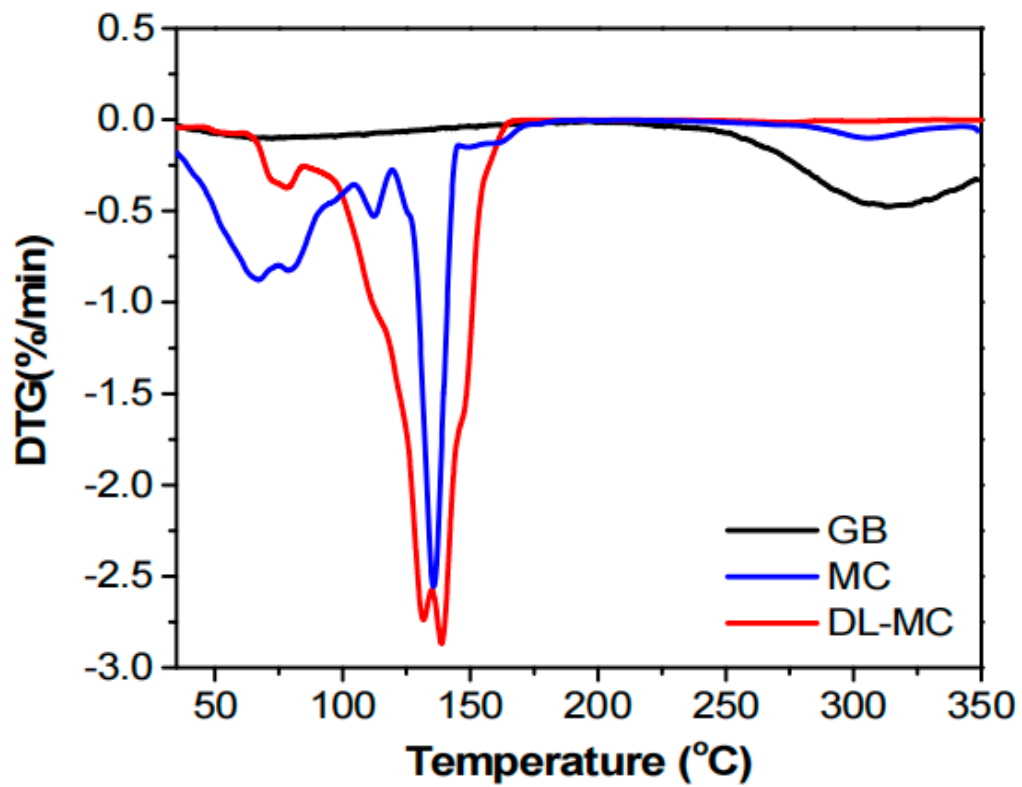
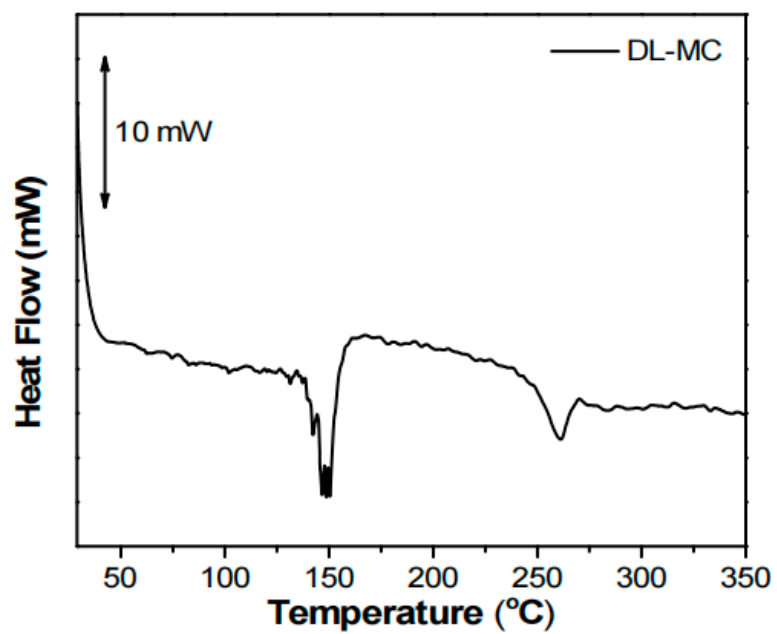


**Figure S1.** Turbidimetric analysis for optimization of microencapsulation; a–d).optical images according to pH value in the turbidimetric analysis graph.



**Figure S2.** DTG data of GB, MC and DL-MC.



**Figure S3.** Different scanning calorimeter (DSC) of DL-MC.