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Supplementary information



Fig.S1. Particle size of Ly/XG NPs with different switchable cycles at pH 7.0.



Fig.S2. Morphology of Ly/XG NPs with different switchable cycles (a cycly1, b cycle 2, c cycle 4, d cycle 6) at pH 7.0.



Fig.S3 Zeta potential of Ly/XG solutions at different pH conditions



Fig.S4 The polydispersity of Ly/XG NPs at different pH conditions



Fig.S5 Transmittance of Ly/XG solutions as the of pH of 12 (a) and 12.2 (b)



Fig.S6 FTIR of Ly (a) and XG (b) that heated at different pH as compared with undisposed samples