Supporting Information for:

A Case of Cyclodextrin-Catalyzed Self-Assembly of Amphiphile into Microspheres

Li Zhao¹, Lingxiang Jiang¹, Yuchun Han², Zhaoyang Xian¹, Jianbin Huang¹*, and Yun Yan¹*

¹Beijing National Laboratory for Molecular Sciences (BNLMS), State Key Laboratory for Structural Chemistry of Unstable and Stable Species, College of Chemistry and Molecular Engineering, Peking University, Beijing, 100871, P. R. China.
²Institute of Chemistry, Chinese Academy of Sciences, Beijing, China

Figure S1. (a) pH titration curves for 0.1 mM TTC4L in pure water; (b) Species distribution of 3TC4L solution within pH range of 0-14 according to pH titration measurement.
Figure S2. Amorphous precipitates obtained at acidifying the TTC4L suspension from pH 8.4 to pH 7.0.

Figure S3. SEM images of precipitate formed in TTC4L@β-CD systems: [β-CD] =0.5 (a, b); 1.0 (c, d); 1.5 (e, f); 2.0 (g, h); 2.5mM (i, j). [TTC4L]=0.5mM for all samples.
Figure S4. XRD pattern for the precipitates formed without the presence of CD. Peaks corresponding to d values of 2.76 nm and 1.37 nm satisfied the relation of 1:2, suggesting the presence of layered structures; whereas the d value of 2.31 nm and 1.53 nm are close to parameters for the microspheres. (See Figure 6a)