

Supplementary Information

A bile acid-induced aggregation transition and rheological properties in its mixtures with alkyltrimethylammonium hydroxide

Changcheng Liu, Jiwei Cui, Aixin Song, Jingcheng Hao*

Key Laboratory of Colloid and Interface Chemistry, Shandong University, Ministry of
Education, Jinan 250100, People's Republic of China

*Corresponding author. E-mail: jhao@sdu.edu.cn; Fax: +86-531-88564750

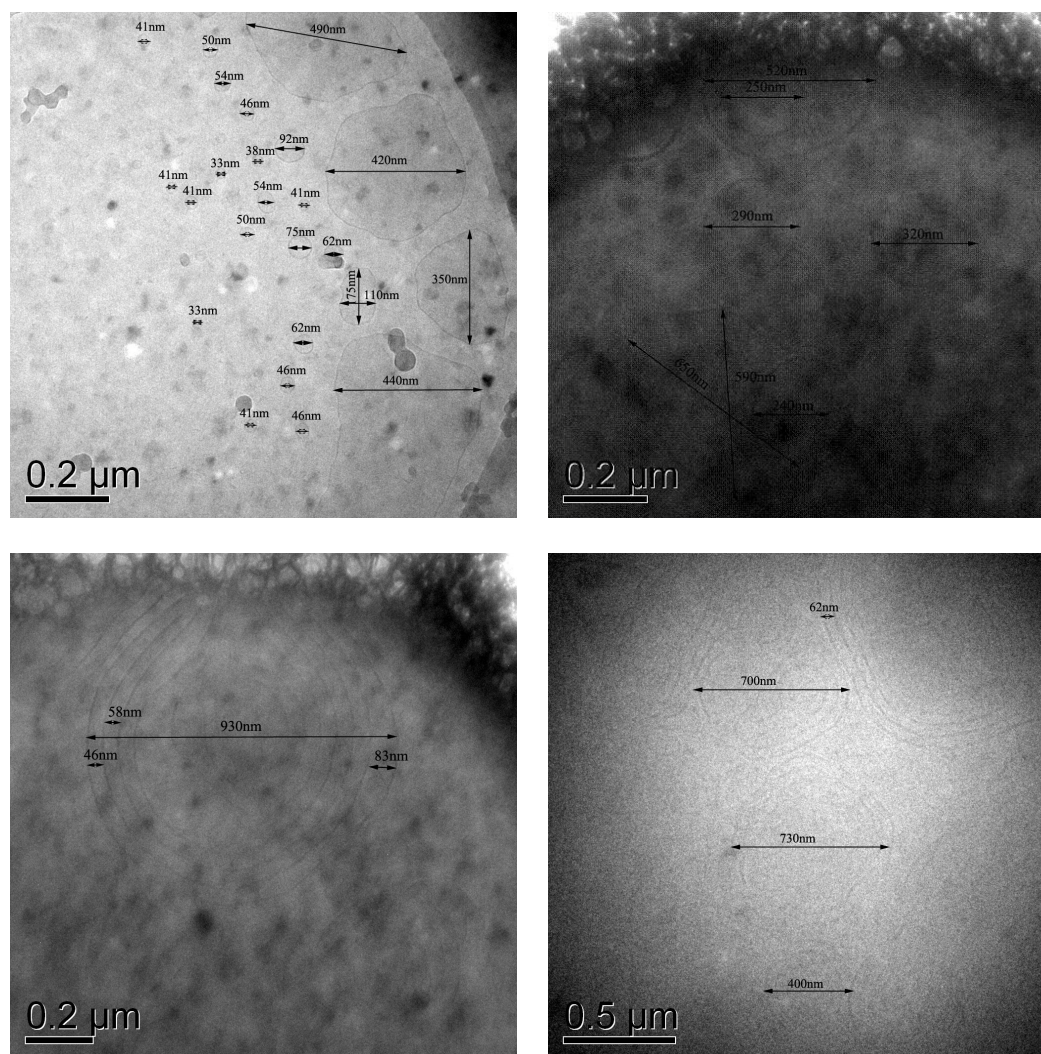


Fig. S1. Cryo-TEM images of equimolar CTAOH/LCA mixture solutions at 20 mmol L⁻¹. The sample is a light blue translucent solution.

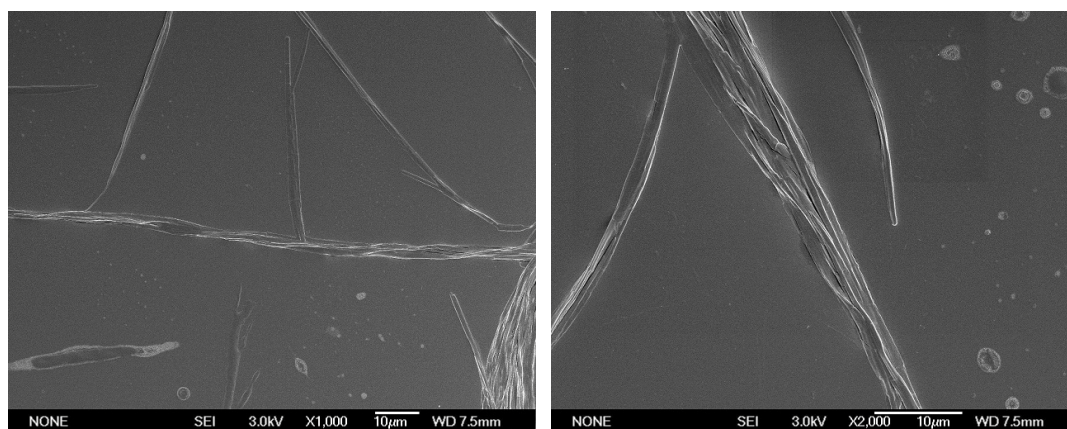


Fig. S2. SEM images of the equimolar CTAOH/LCA mixture solutions at 20 mmol L⁻¹ after 6 days of preparation. The images clearly show the left-handed helical

twisted ribbon structures.

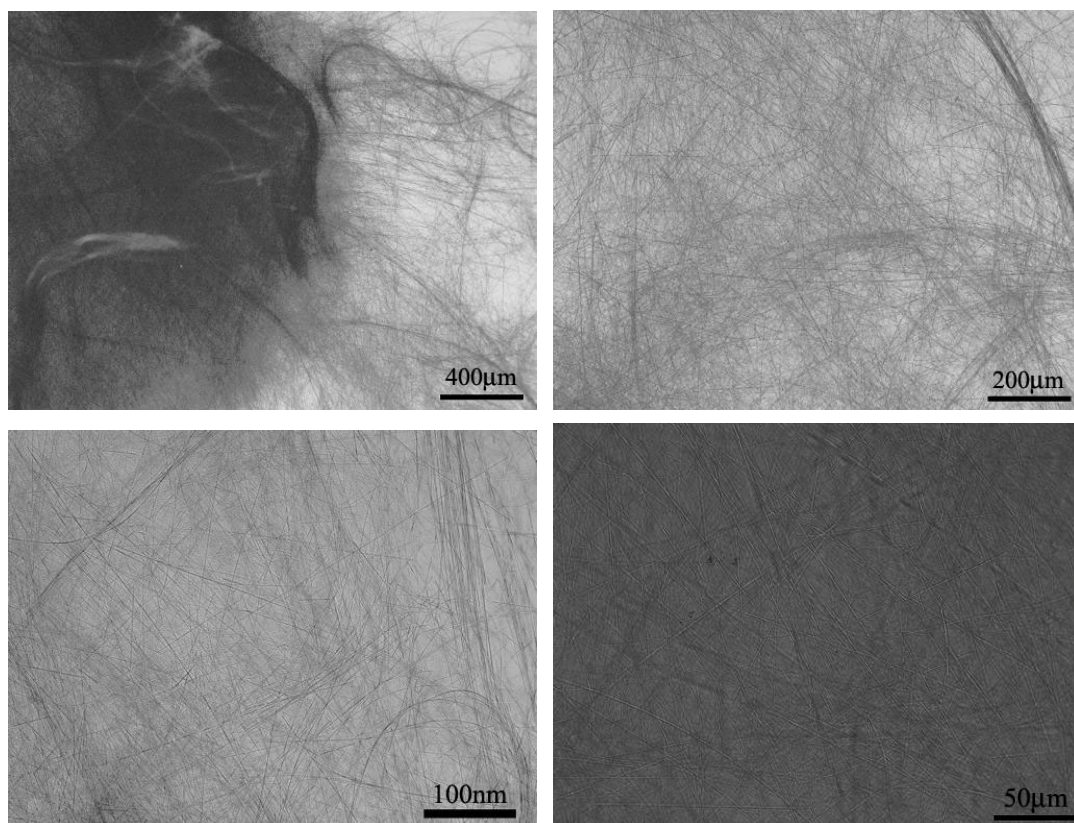
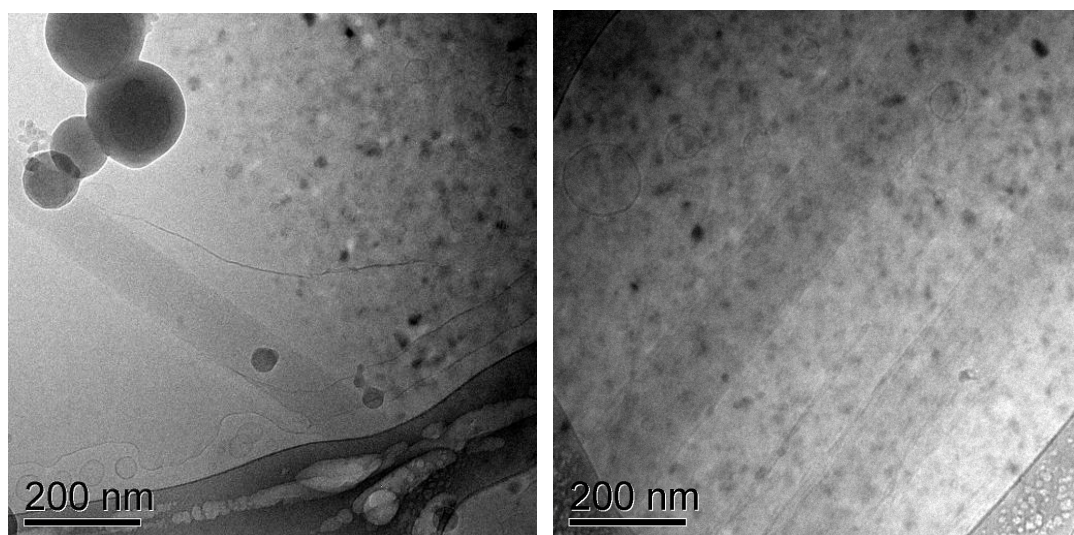


Fig. S3. Optical micrograph of the intertwined networks of helical ribbons in the gels at 20 mmol L^{-1} .



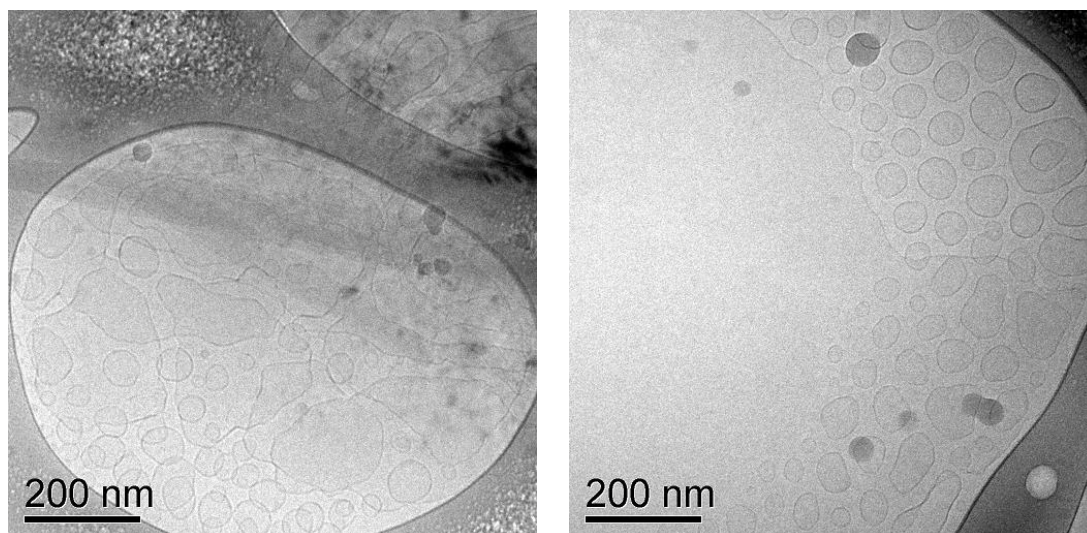


Fig. S4. Cryo-TEM images for the CTAOH/LCA mixture solutions at 10 mmol L^{-1} after a little heating of the gel. Helical ribbons and vesicles are observed from images.