

Electronic Supplementary Information

Ion-selective molecular inclusion of organic dyes into pH-responsive gel assemblies of zwitterionic surfactants

Clara Morita-Imura,^{*a} Yuka Sakurai,^a Anna Uchiumi^b and Hitoshi Shindo^b

^a Department of Chemistry, Faculty of Science, Ochanomizu University,
2-1-1 Otsuka, Bunkyo-ku, Tokyo, 112-8610, JAPAN

^b Department of Applied Chemistry, Faculty of Science and Engineering, Chuo University,
1-13-27 Kasuga, Bunkyo-ku, Tokyo 112-8551, JAPAN

*imura.clara@ocha.ac.jp

FT-IR Measurement

Fourier transform infrared (FT-IR) spectra with a resolution of 2 cm^{-1} were obtained using a Nicolet 6700 FT-IR spectrometer (Thermo Fisher Scientific) equipped with a single-reflection ATR accessory and diamond crystal. For each spectrum, 1000 scans were recorded and averaged. All samples were prepared in D_2O , and pH was adjusted to 4 by titration of DCl solution.

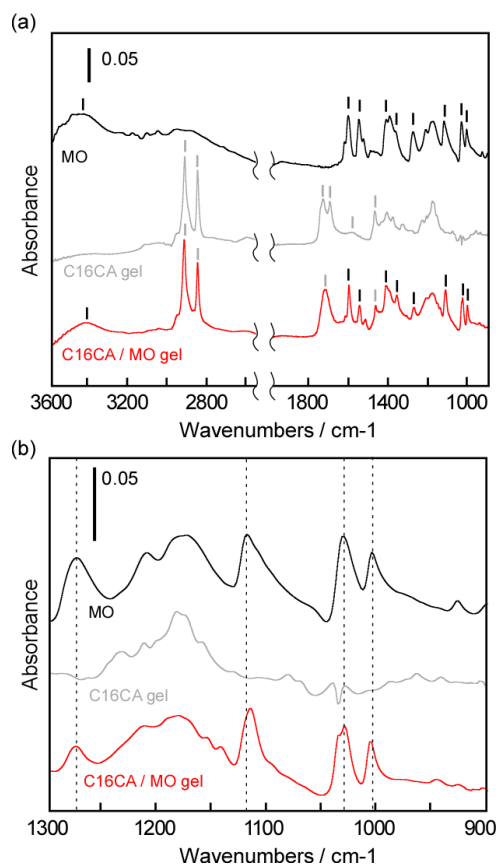


Figure S1. FT-IR spectra of MO solution ($[\text{MO}] = 0.50\text{ mmol/L}$), C16CA gel ($[\text{C16CA}] = 10\text{ mmol/L}$), and C16CA/MO gel ($[\text{C16CA}] = 10\text{ mmol/L}$, $[\text{MO}] = 0.50\text{ mmol/L}$) at pH 4.