Electronic Supplementary Information

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

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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\(_2\)O, and pH was adjusted to 4 by titration of DCI solution.

![FT-IR spectra](image)

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