

**Pore-Expansion of Monodisperse Mesoporous Silica Spheres
by a Novel Surfactant Exchange Method**

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1. Powder X-ray diffraction (XRD) patterns of MMSS-n and PS22-MMSS-n (Fig. S1).
2. Matrix assisted laser desorption ionization time-of-flight mass spectrometry (MALDI-TOF/MS) and electrospray ionization liquid chromatography mass spectrometry (ESI-LC/MS) spectra of PS22-MMSS-10 and its extract (Figs. S2 and S3).

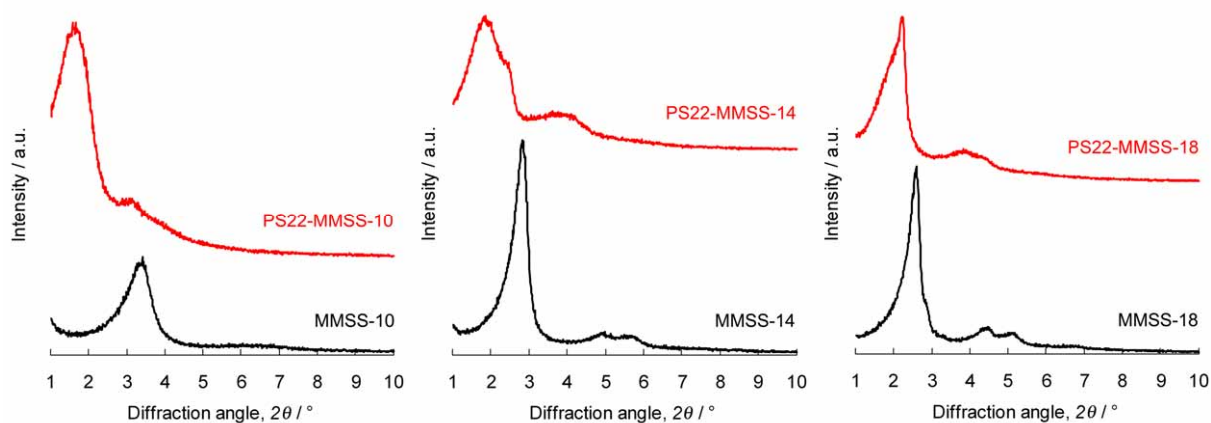


Fig. S1 XRD patterns of MMSS-*n* and PS22-MMSS-*n*^a.
^a Small shoulders are observed in XRD patterns of PS22-MMSS-10 and -14.
 These are assumed to originate from insufficiently expanded mesopores.

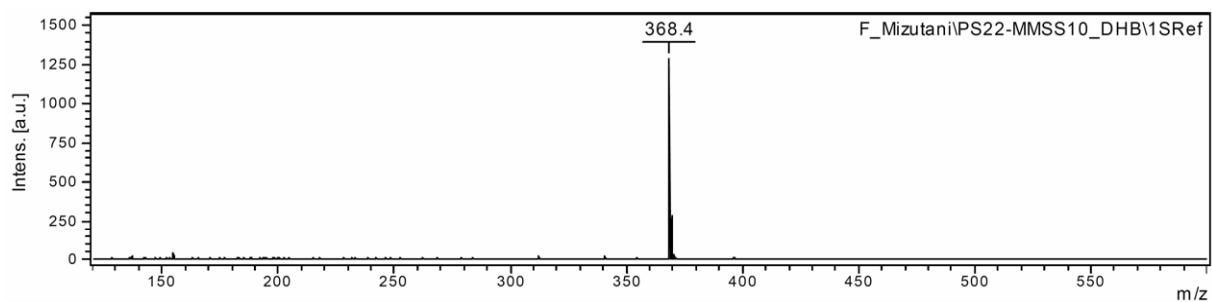


Fig. S2 The MALDI-TOF/MS spectrum of PS22-MMSS-10.

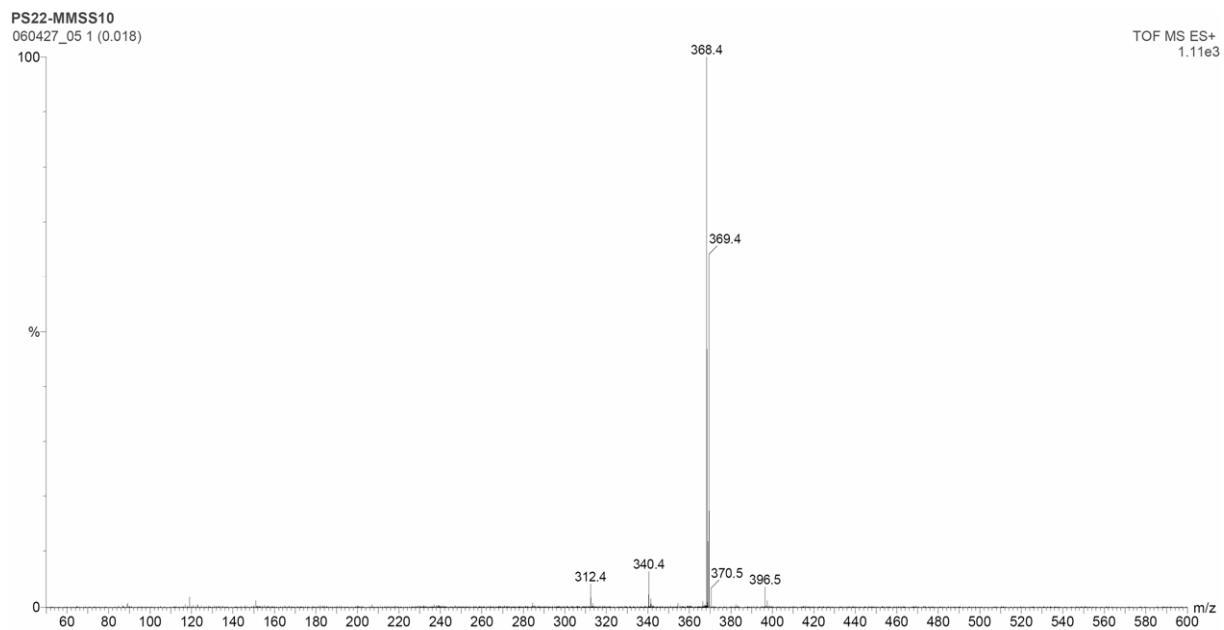


Fig. S3 The ESI-LC/MS spectrum of surfactant extracted from PS22-MMSS-10.