Supporting information

Synthesis and Self-Assembly of Poly(ferrocenyldimethylsilane-\textit{b}-dimethylaminoethylmethacrylate): Towards Water-Soluble Cylinders with an Organometallic Core

Xiaosong Wang  Mitchell A. Winnik*  and  Ian Manners*

Figure S1: Micelles prepared from PFS$_9$-\textit{b}-PDMAEMA$_{50}$ dioxane solution in the presence of decamethylferrocene. a) water added rapidly; b) water added slowly.
Figure S2: Pt/C shadowed TEM image for micelles prepared by stirring PFS$_9$-b-PDMAEMA$_{50}$ with water for 30 days

Figure S3: Angular-dependence DLS for PFS$_9$-q-PDMAEMA$_{50}$ micelles in water
GPC online measurement of dn/dc:¹

dn/dc was calculated using the refractive index detector, but the exact concentration of the sample needs to be known. In order to use RI quantitatively, an RI calibration constant must be determined. This RI calibration constant is determined by injecting a reference sample (narrow molecular weight polystyrene in THF of known concentration; dn/dc = 0.185, supplied by Visotek).

There are a few assumptions associated with the measurement:

1. It is assumed that the dn/dc of PS does not change substantially with small changes in the light source, or with solvent impurities.
2. We assume that the level of solvent impurity is negligible. We used the same solvent for all polymer samples including the reference to minimize any impurity effects.
3. We assume that all of the PS has eluted from the column.