

Supporting Information

Type of PMs	Average Size (nm)	Polydispersity index (PDI)	z-potential (meV)
Uncoated PMs	1500	0.4	-40
PVA coated PMs	1530	0.6	0
PEI coated PMs	1530	0.68	+20

Table 1S. Summary of the average size changes due to polymeric coatings applied to PMs. The average size and surface charge changes were measured by DLS technique.

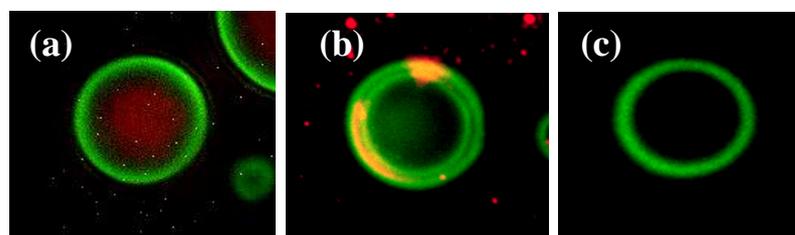


Figure 2S. Fluorescent microscopy images of FITC-BSA microspheres loaded with tagged RNA. (a) FITC-BSA (green) sphere with encapsulated Cy3-RNA (red) inside; (b) FITC-BSA sphere with Cy3-RNA-6FAM inside; (c) hollow FITC-BSA sphere.

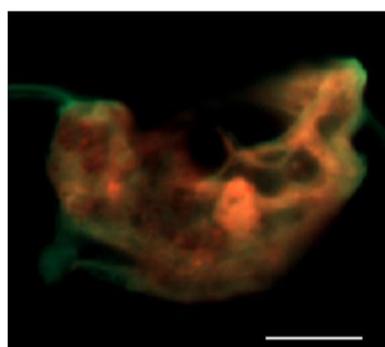


Figure 3S. Confocal microscopy image of fitc-BSA-Cy3-RNA aggregate in water solution. Green signal belong to fluorescent signal which emits from FITC-BSA and red signal belong to Cy3 labeled RNA. Scale Bar = 5 μ m.

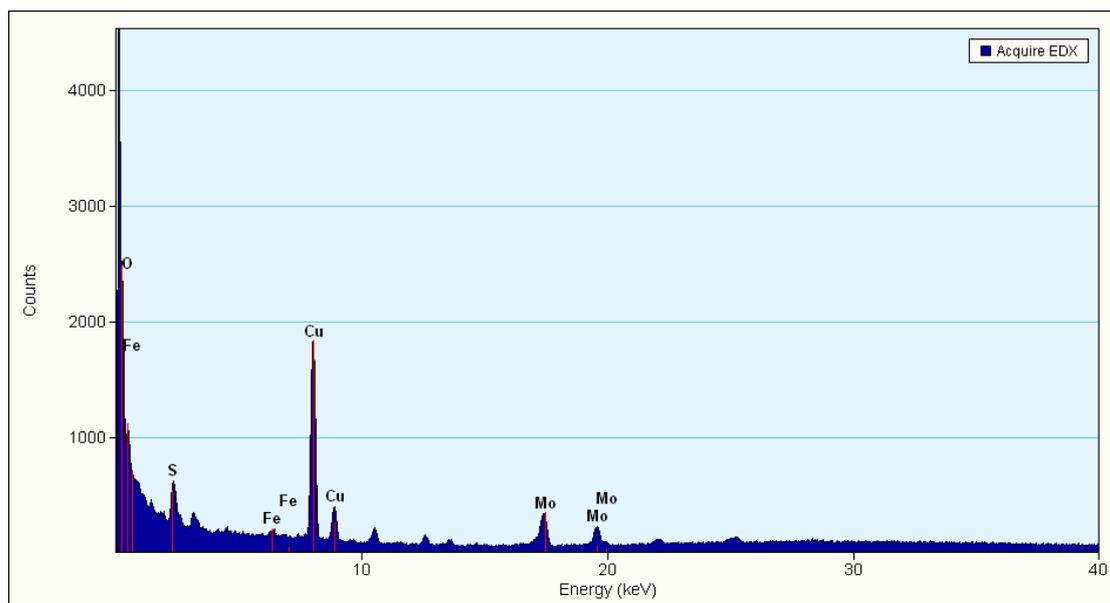


Figure 4S. EDS elemental analysis of iron coated sphere.