

# Fluorescein isothiocyanate embedded silica spheres in gadolinium carbonate shells as a novel magnetic resonance imaging and fluorescence bi-modal contrast agent

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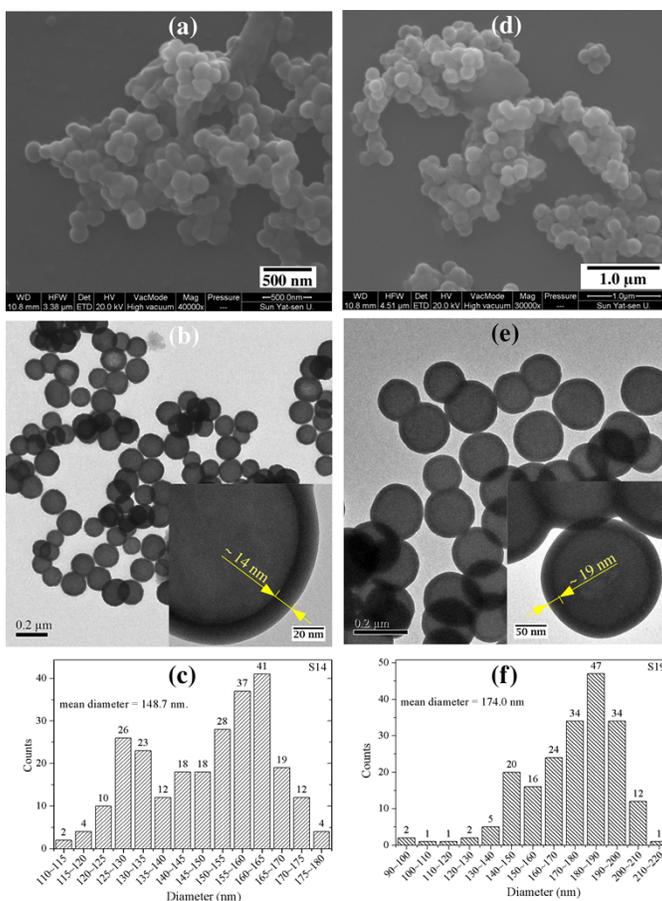


Figure S11. Morphology characterization. Scanned electronic microscopy image (a) and transmission electronic microscopy one (b) of S14, of which the size distribution is (c); SEM image (d) and TEM one (e) of S19, its size distribution is (f).

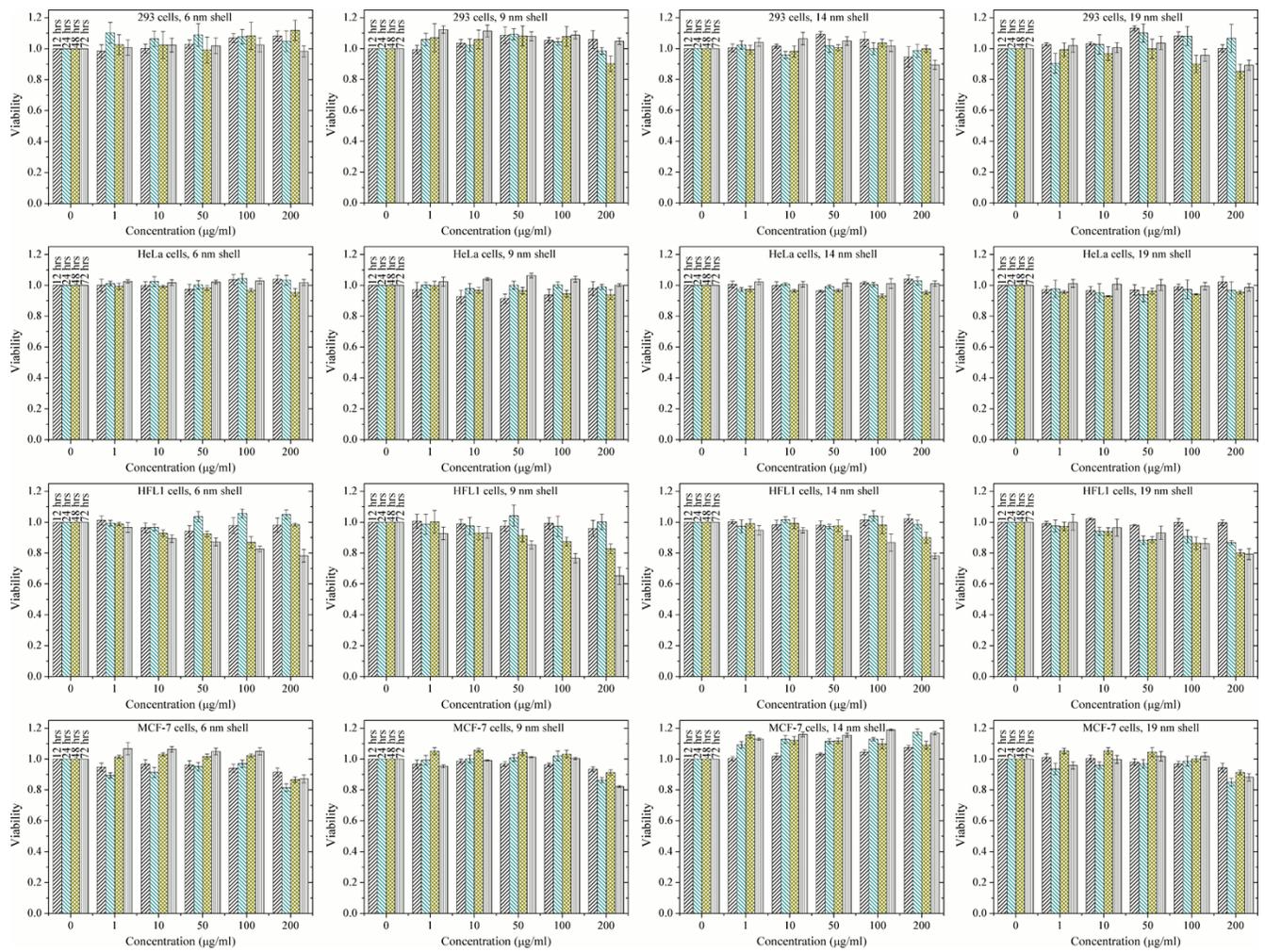


Figure SI2. Full CCK-8 colorimetric assays results.

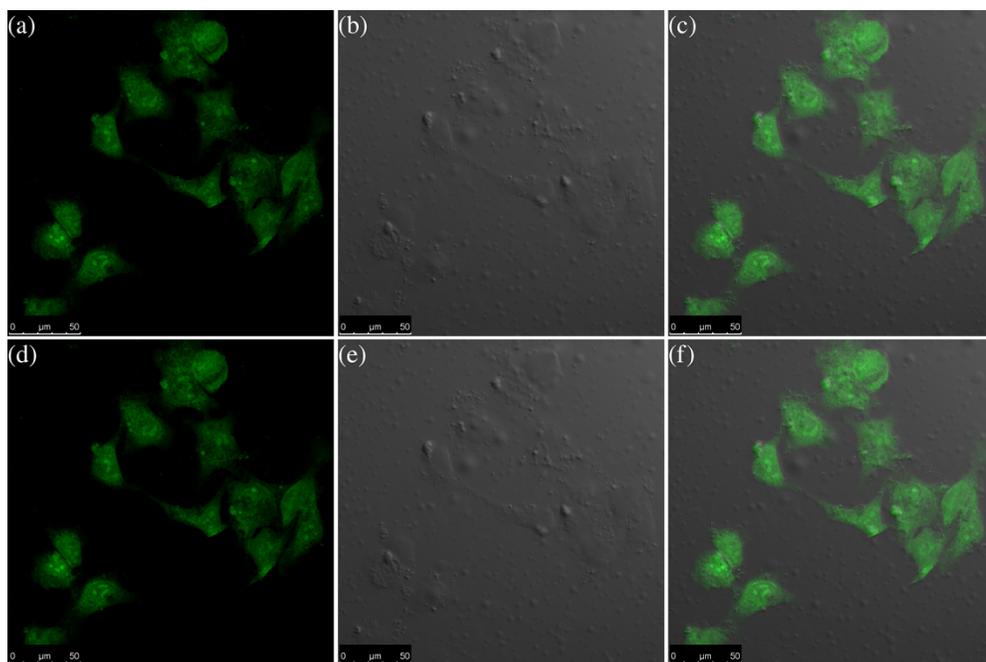


Figure S13. Laser confocal microscopy images of HeLa cells, which had cultured for 1 hour in the mixture contained 20  $\mu\text{g/ml}$  of the NPs. The cells treated by (a-c) S9 and (d-f) S14 were exposed under (a, d) the light at 488 nm of wavelength, (b, e) white light, (c, f) Merged images from fluorescence and white light imaging.