## Supporting Information for: Direct Evidence of Lack of Colocalisation of Fluorescently Labelled Gold Labels Used in Correlative Light Electron Microscopy

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Diffusion ordered NMR spectroscopy (DOSY) measurements were performed using a Varian VNMRS500 spectrometer with a direct probe at 298 K. A pulsed gradient duration of 2 ms incremented from 3.9 to 45.5 G cm<sup>-1</sup> in 15 steps and a diffusion time of 50 ms. DOSY measurements of a sample of NP-A-633 showed the presence of a set of signals corresponding to Streptavidin-Alexa633 with diffusion coefficients between  $0.3-0.5 \times 10^{-10}$  ms<sup>-2</sup>. Peaks at higher diffusion coefficients corresponding to unbound citrate ( $3.2 \times 10^{-10}$  ms<sup>-2</sup>), used to stabilize gold nanoparticles, were also observed.



Figure 1. H NMR of Streptavidin-Alexa633



Figure 2. DOSY of NP-A-633