

Supporting information

Magnetic Nanoparticles for Magnetic Resonance Imaging: Modulation of Macrophage Uptake by Controlled PEGylation of Surface Coating

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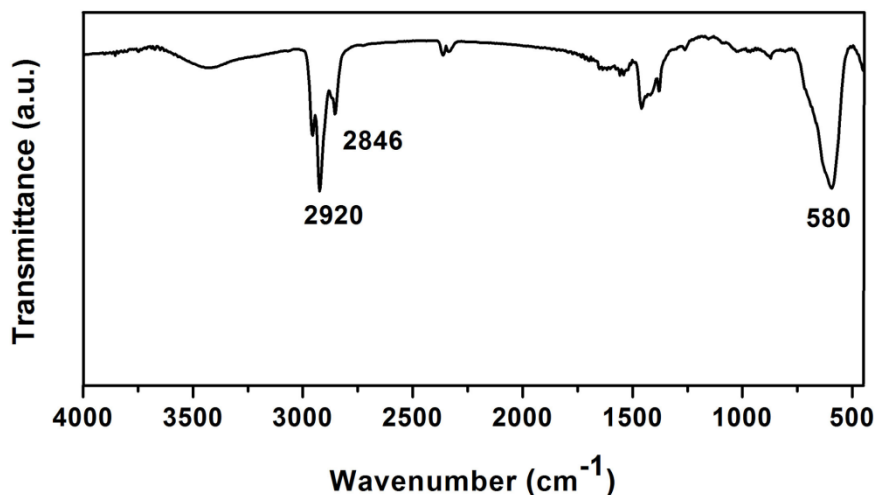
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Figure S1 FTIR spectrum of ~12 nm MNPs



The absorption peak at 580 cm^{-1} is the characteristic peak of Fe-O in Fe_3O_4 . The corresponding characteristic peaks in $\gamma\text{-Fe}_2\text{O}_3$ at 633 cm^{-1} and 563 cm^{-1} are absent^{1,2}. The absorption peaks at 2920 cm^{-1} and 2846 cm^{-1} are attributed to the asymmetric and symmetric stretch in the methylene groups of oleic acid.

References

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2. J. H. Li, R. Y. Hong, H. Z. Li, J. Ding, Y. Zheng and D. G. Wei, *Materials Chemistry and Physics*, 2009, **113**, 140-144.