

Supporting information available:

**Size-controlled preparation of magnetic iron oxide
nanocrystals within hyperbranched polymers and their
magnetofection *in vitro***

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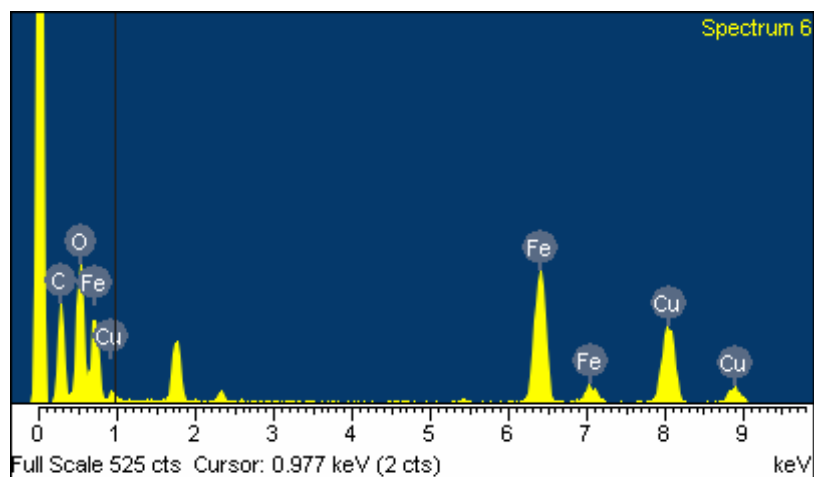


Figure S1. EDS of Mag-HPEI-1.25.

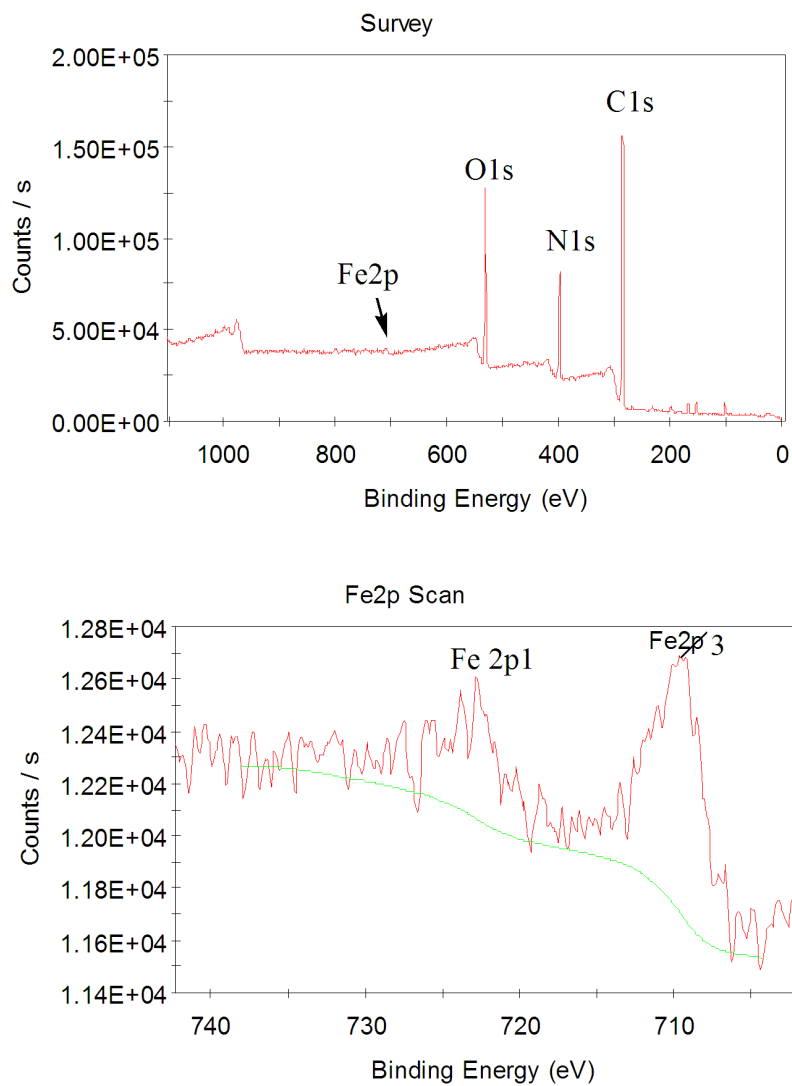


Figure S2. XPS spectra of Mag-HPEI-1.

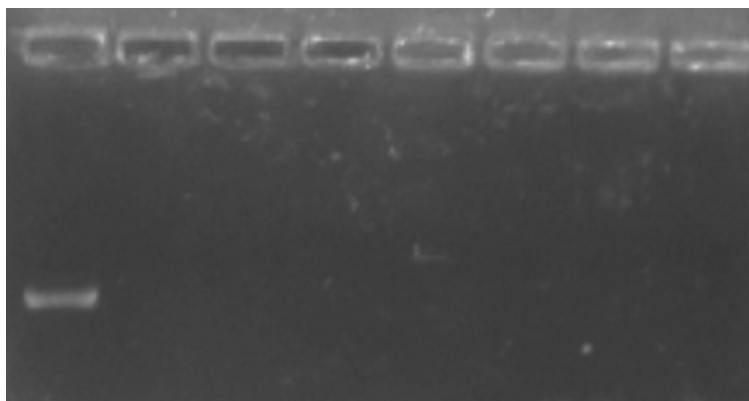


Figure S3. Determination of plasmid DNA condensation by gel retardation assay.

Plasmid DNA was complexed with Mag-HPEI-1 at various Fe/DNA weight ratios 0, 0.1, 0.2, 0.5, 0.75, 1, 1.5, and 2 from left to right and loaded into an agarose gel.

Complexation prevented DNA migration into gel.

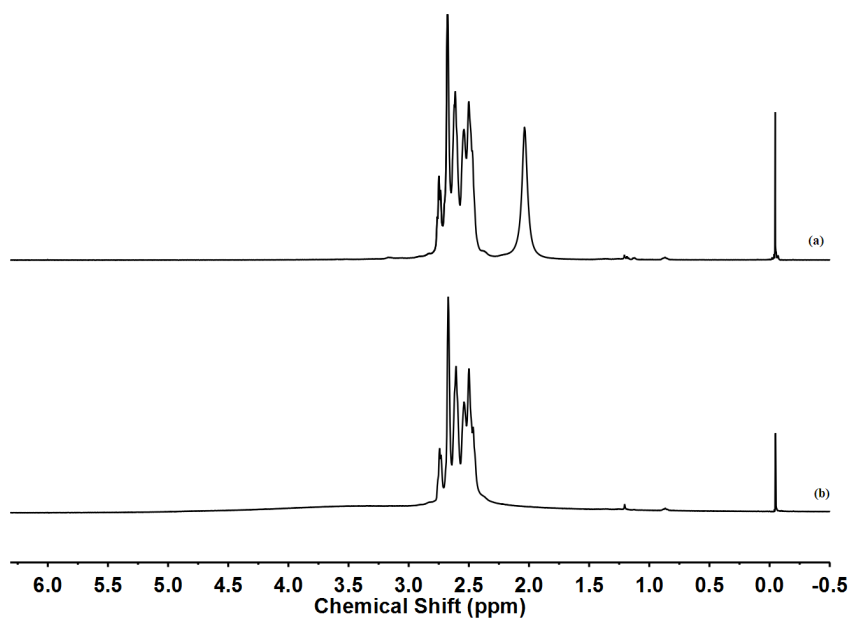


Figure S4. ¹H NMR spectra of (a) HPEI and (b) HPEI treated by H₂O₂.