

## Ceria loaded nanoreactors: a nontoxic superantioxidant system with high stability and efficacy

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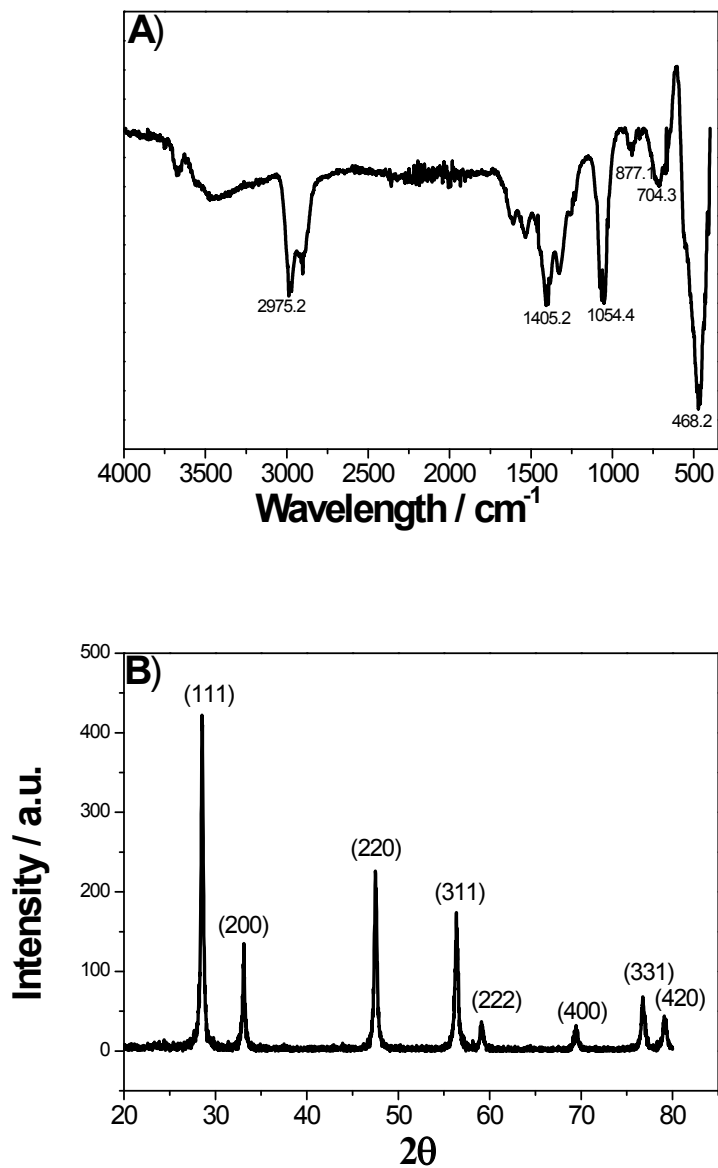
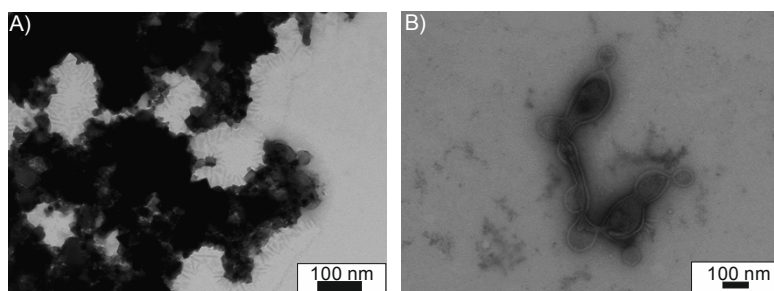
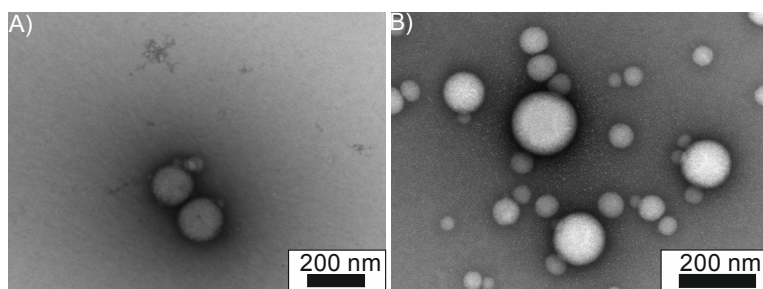


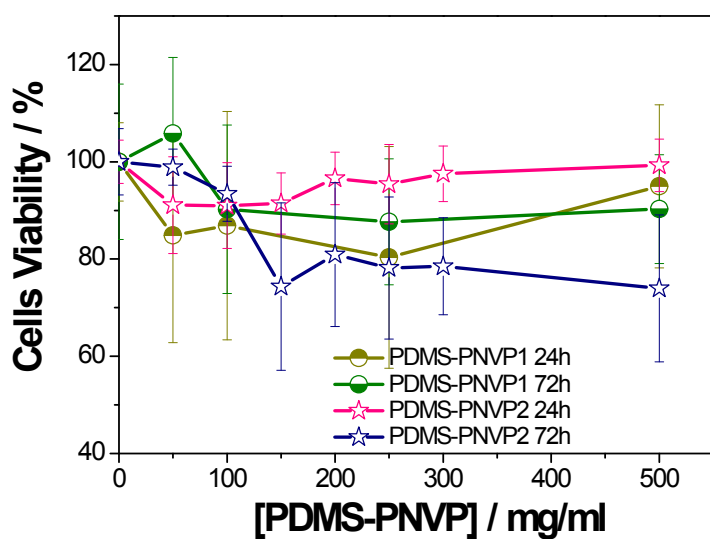
Figure S1. FTIR spectrum of CeNP



**Figure S2.**TEM micrographs of CeNP (0.068 mM) in PBS buffer (A) after 1h, (B) after 6 h.



**Figure S3.**TEM micrographs of CeNP loaded PDMS-PNVP nanoreactors after three months storage at room temperature (A) PDMS-PNVP1, (B) PDMS-PNVP2.



**Figure S4.**HeLa cells viability when incubated for 24 and 72 h with PDMS-PNVP1 and PDMS-PNVP2 polymers.