

Electronic Supplementary Information

Amphiphilic, Cross-Linkable Diblock Copolymers for Multifunctionalized Nanoparticles as Biological Probes

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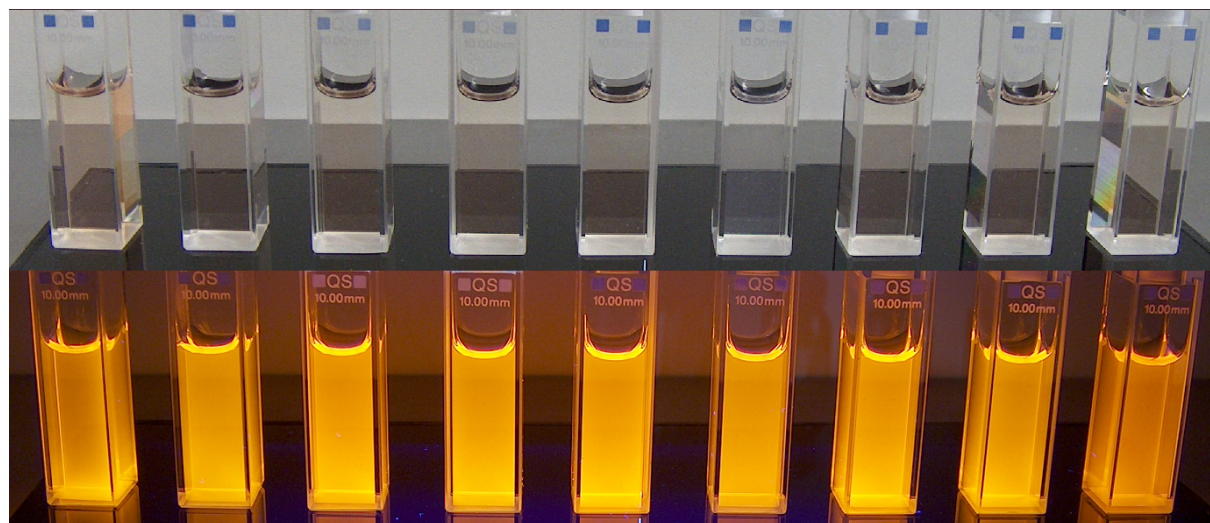


Figure S1: Images of PI-*b*-PEG encapsulated QDs with different end groups (from left to right: -COOH, -COOH/-OMe (3:1), -CHO, -COOH/-OMe (1:1), -OH, -OMe, -OMe/-NH₂ (1:1), -NH₂, -(NH₂)₂ with (bottom) and without (top) UV irradiation.



Figure S2: Images of PI-*b*-PEG encapsulated QDs after sucrose gradient centrifugation with (right) and without (left) UV irradiation.

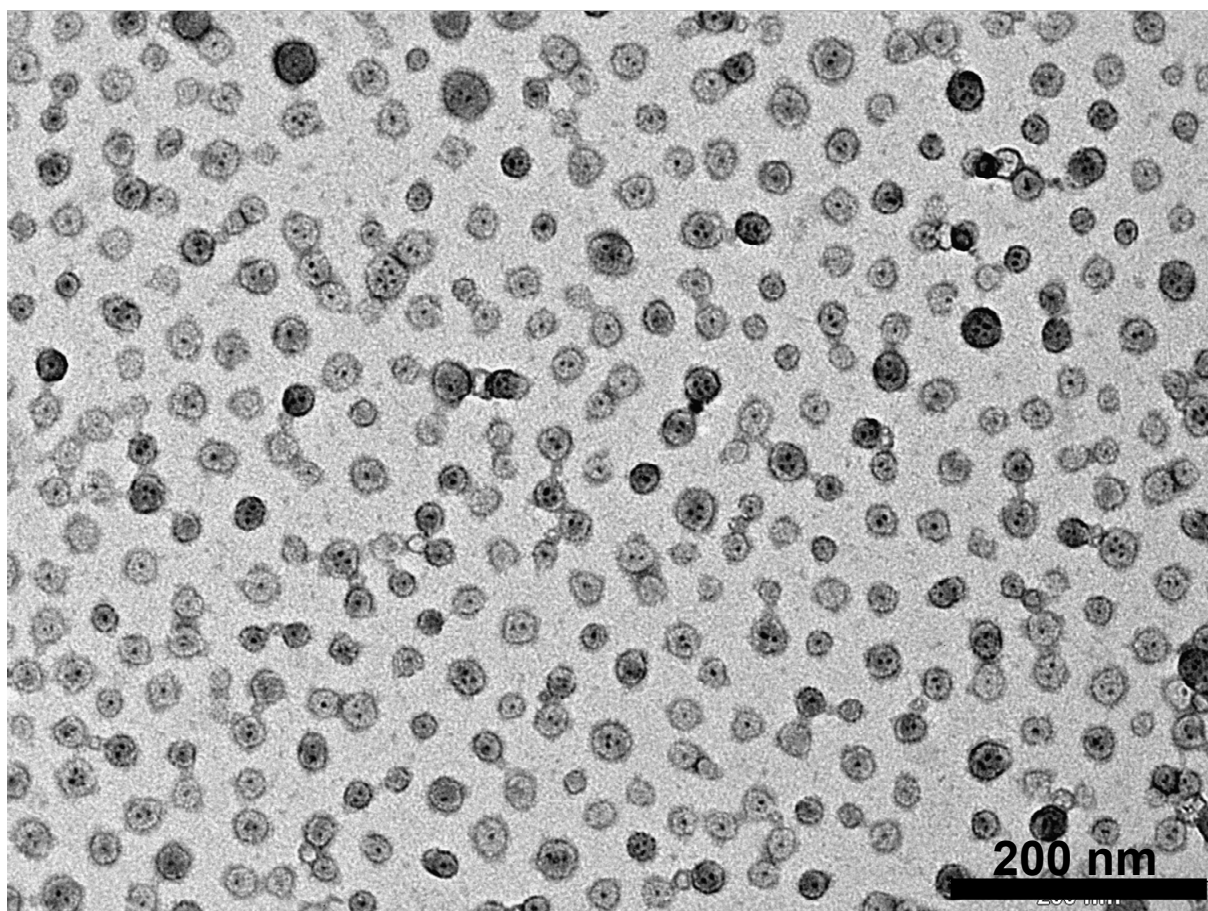


Figure S3: Phosphotungstic acid stained TEM image of PI-*b*-PEG encapsulated QDs after sucrose gradient and HPLC purification.

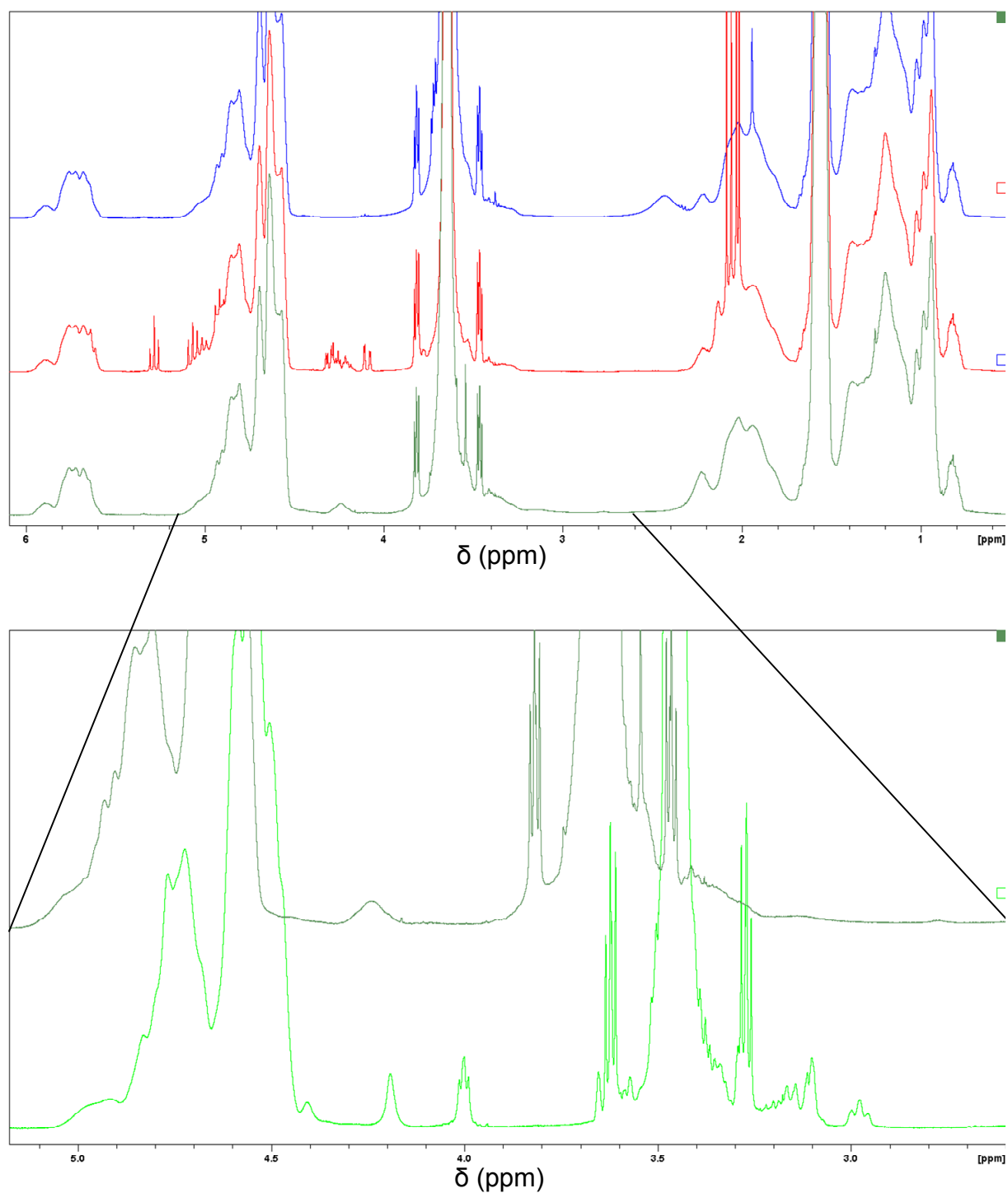


Figure S4: (Top) Superimposed NMR spectra of PI-*b*-PEG-OH (**5**, blue), PI-*b*-PEG-GlcAc₄ (**23**, red) and PI-*b*-PEG-Glc (**24**, olive) in CDCl₃. (Bottom) Characteristic section of the NMR spectra of PI-*b*-PEG-Glc (**24**, olive) in CDCl₃ and in THF-D₈ (green).

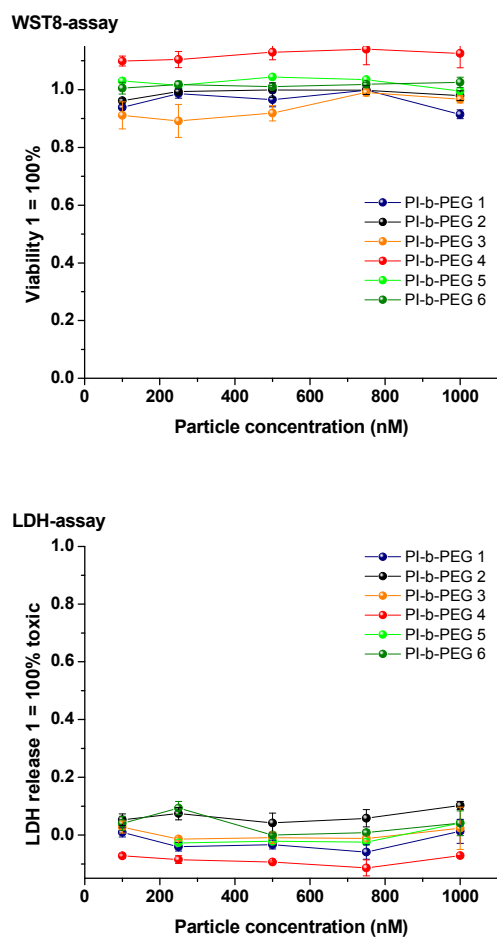


Figure S5: WST8- (top) and LDH-assay (bottom) of PI-*b*-PEG encapsulated QDs with different molecular weight tested on A549 cells.

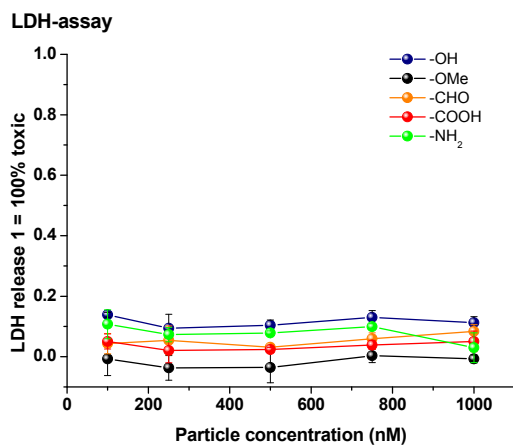
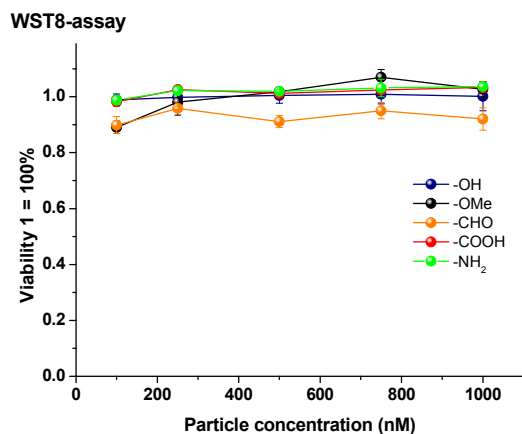


Figure S6: WST8- (top) and LDH-assay (bottom) of PI-*b*-PEG encapsulated FeOx-NPs with different end groups tested on A549 cells.