

*Supplementary Material*

## **Low Molecular Weight pDMAEMA-*block*-pHEMA Block-Copolymers Synthesized via RAFT-Polymerization: Potential Non-Viral Gene Delivery Agents?**

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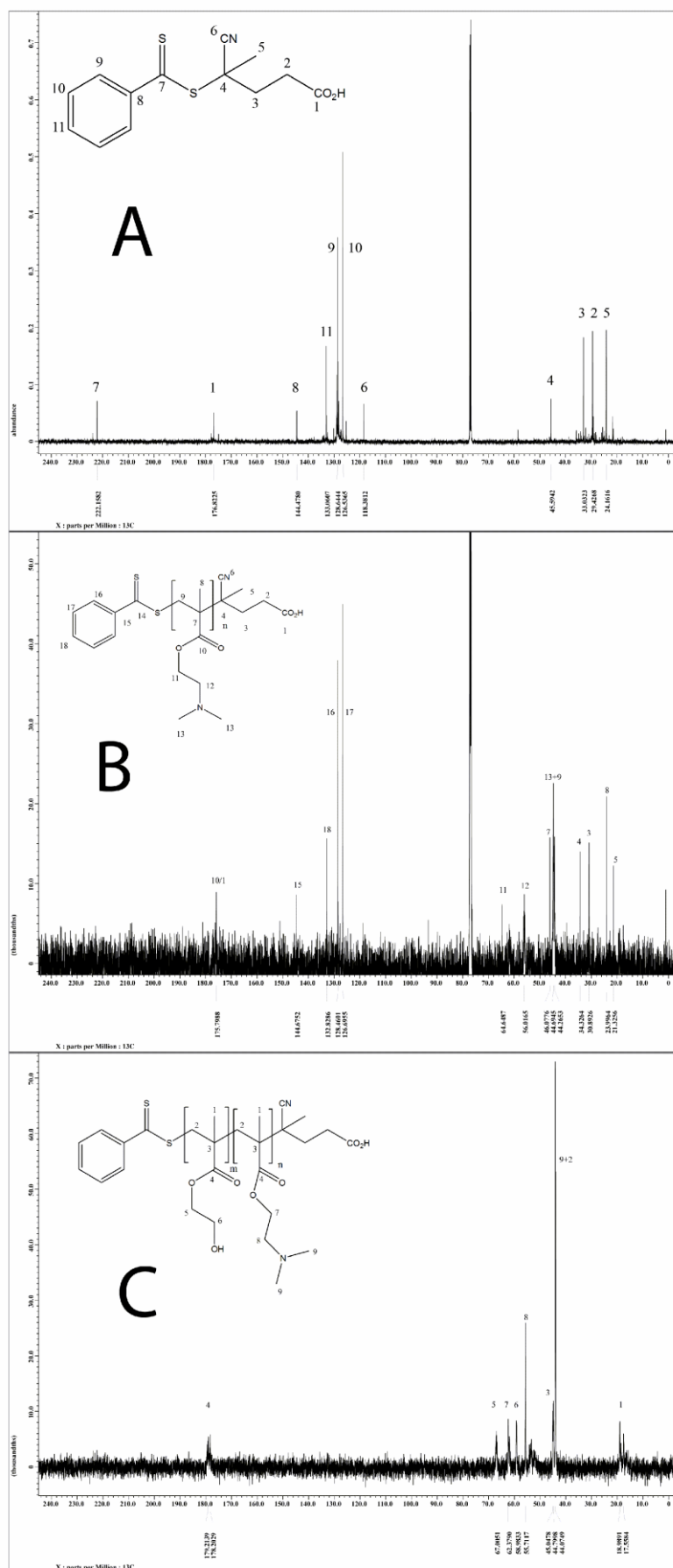
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**Figure S1.**  $^{13}\text{C}$  NMR spectra of (A) CPT in  $\text{CDCl}_3$ , (B) pDMAEMA in  $\text{CDCl}_3$  and (C) pDMAEMA-b-pHEMA in  $\text{D}_2\text{O}$ ; the numbers designate the atoms within the molecules.



**Figure S2.** Molecular weight (**A**), transfection efficacy (**B**) and cytotoxicity (**C**) of homo-pDMAEMAs poly(2-(dimethyl amino)ethyl methacrylate).

