

**Supporting Information for Polymer Chemistry**

**Polyethyleneimine Functionalized Polymer Microsphere: a  
Novel Delivery Vector for Cells**

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During the formation of P1-PEI and P2-PEI complexes, the uncombined PEI chains were removed by successive centrifugation, and the supernate was detected by agrose gel electrophoresis. In Figure S1.A, after the P-PEI complexes was resuspension and centrifugation for 8 times, the supernate and DNA were mixtured with different mass ratio and added into lane 1-10, then all the DNA were retained which mean the supernate still contain residual PEI chains. While in the lane 8-10 of Figure S1.B, after the P-PEI complexes was resuspension and centrifugation for 10 times, there was no retained DNA in agrose gel, which indicated that there were no residual exist in P-PEI complexes.

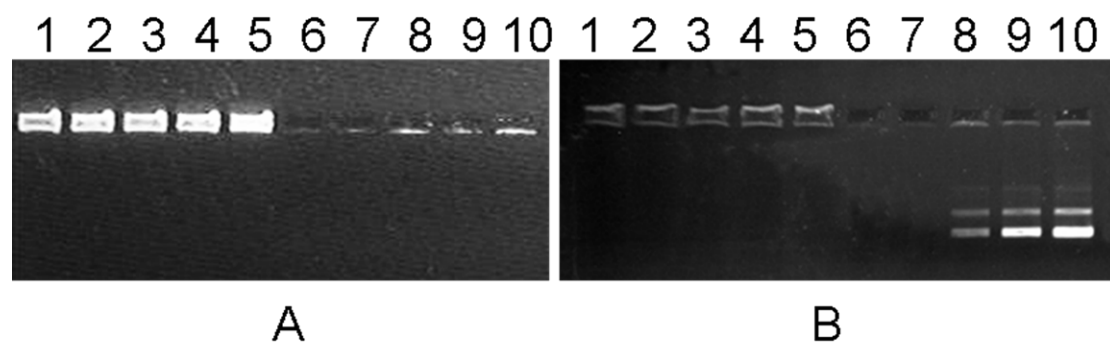


Figure S1. The agrose gel electrophoresis to determined whether all residual PEI chains were cleaned away from the system after several times of centrifugation and decantation. A, after 8 times of centrifugation; B, after 10 times of centrifugation.