

Anion Exchange-Based Amperometric Assay for Heparin Using Polyimidazolium as Synthetic Receptor

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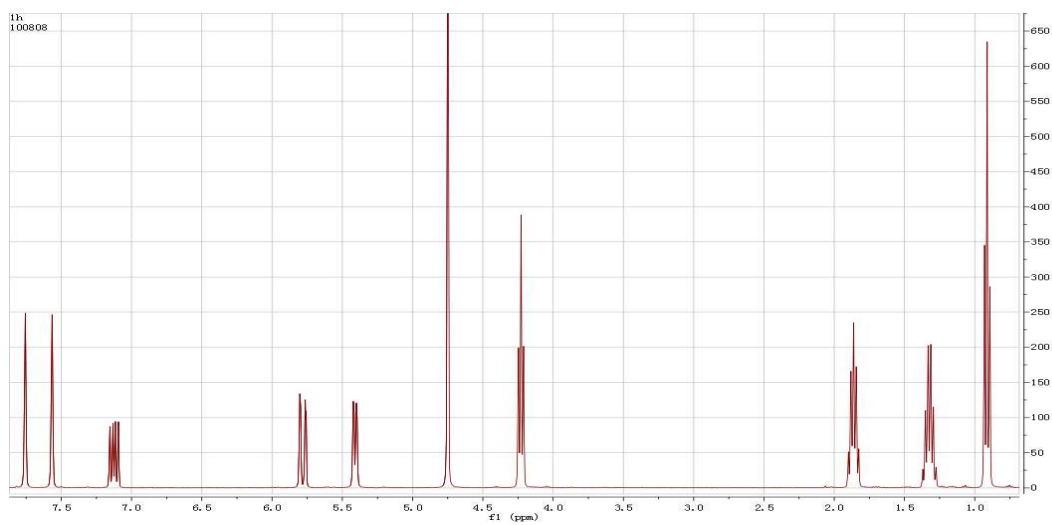


Figure S1. NMR data of [Vbim][Cl].

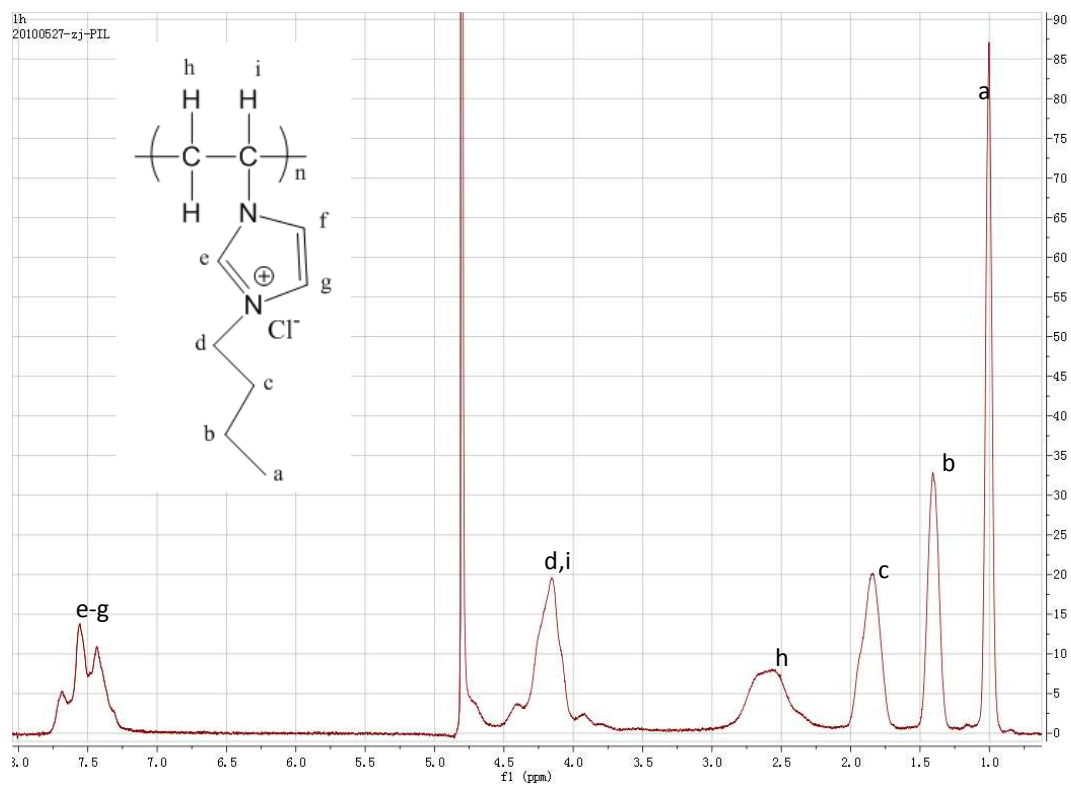


Figure S2. NMR of Synthetic Pim.

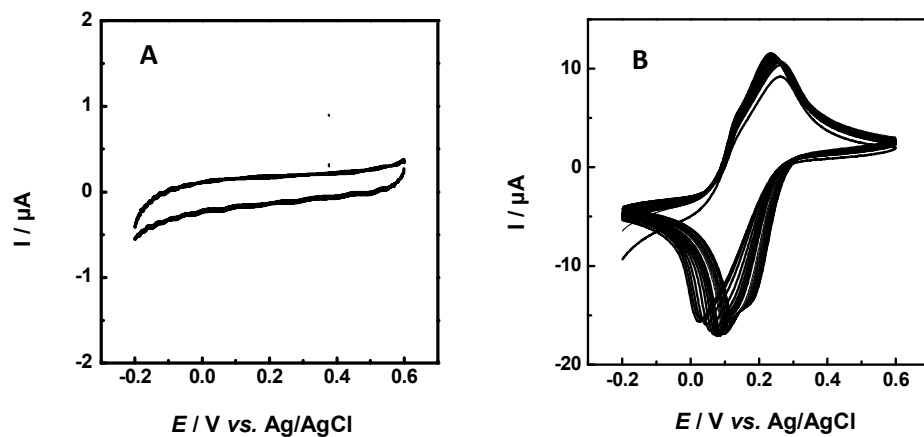


Figure S3. (A) CVs obtained at the Pim/MWCNT-modified GC electrodes in 0.10 M PBS (pH=7). (B) Consecutive CVs obtained at the Pim/MWCNT-modified GC electrodes in 1 mM $K_3Fe(CN)_6$ for 60 cycles.

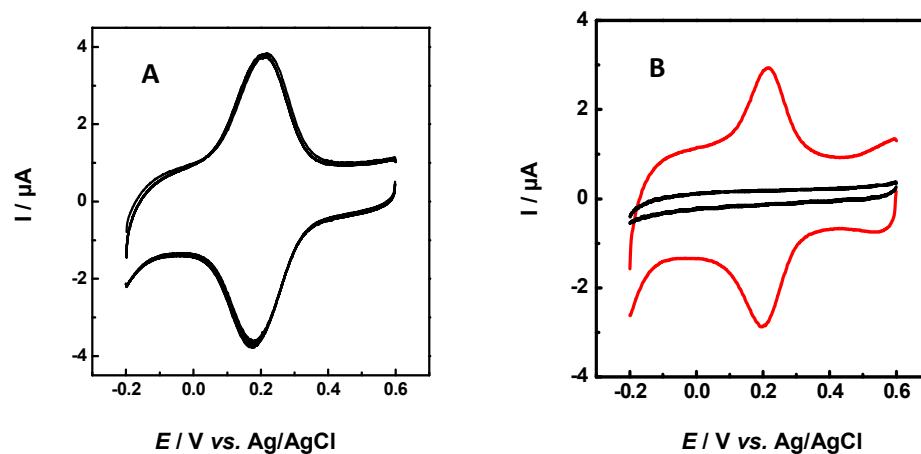


Figure S4. (A) CVs obtained at the $Fe(CN)_6^{3-}$ /Pim/MWCNTs-modified GC electrodes in 0.10 M PBS (pH=7) for 20 cycles, (B) Typical CVs obtained at $Fe(CN)_6^{3-}$ /Pim/MWCNTs-modified GC electrodes in 0.10 M PBS (red curve) and Pim/MWCNT-modified GC electrodes in 0.1 M PBS (black curve).

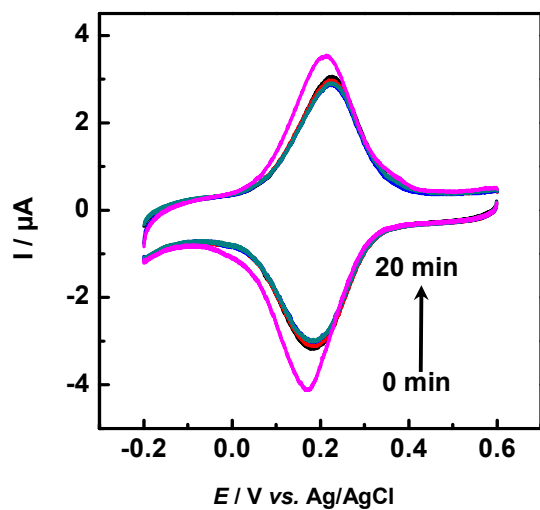


Figure S5. CVs obtained at the $\text{Fe}(\text{CN})_6^{3-}/\text{Pim}/\text{MWCNT}$ -modified GC electrodes in 0.10 M PBS after the electrodes were immersed into 1 μM heparin different times of 0 min (magenta), 5 min (black), 10 min (red), 15 min (blue), and 20 min (dark cyan).

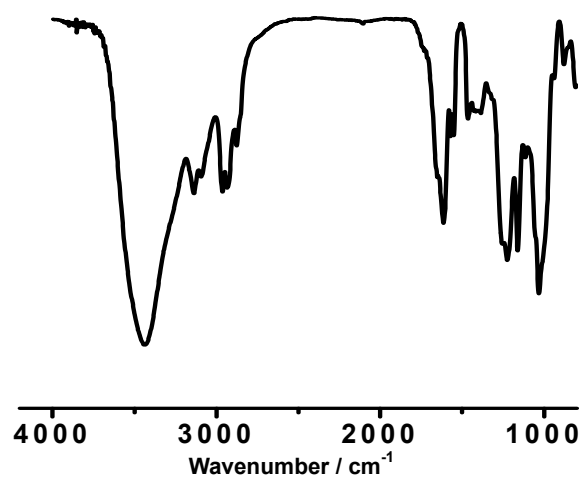


Figure S6. FT-IR spectra for the aggregates formed by heparin and Pim, which was exchanged by $\text{K}_3\text{Fe}(\text{CN})_6$.