

Electronic Supplementary Information

Dynamics of Polyzwitterion in Salt-free and Salt Solutions

Zhonglin Cao^a and Guangzhao Zhang^{*ab}

^a Hefei National Laboratory for Physical Sciences at the Microscale, Department of Chemical Physics, University of Science and Technology of China, Hefei, China 230026

^b Faculty of Materials Science and Engineering, South China University of Technology, Guangzhou, China, 510640

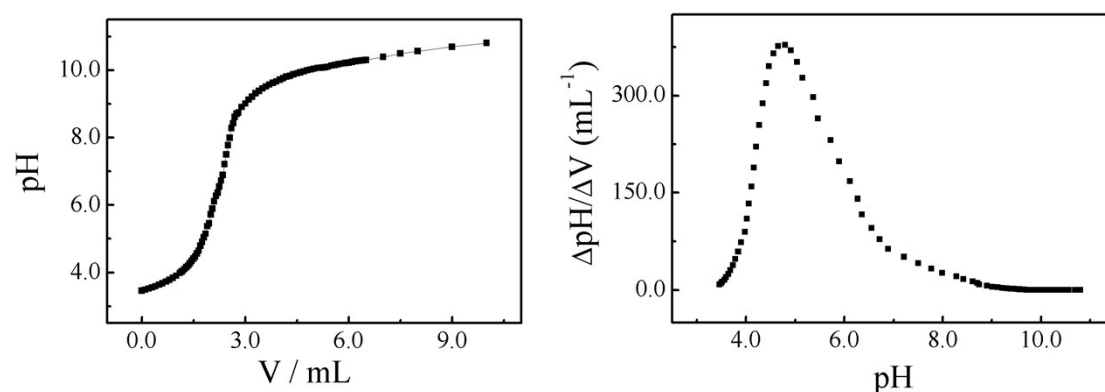


Fig. S1. Titration curve (left) and derivate curve (right) of PSB solution with 0.01 M NaOH, where $C_p = 5.0$ g/L.

The isoelectric point (PI) of polyzwitterion arises from the asymmetric adsorption effect of anion and cation groups to H^+ and OH^- . pI of PSB is 4.8 measured by titration.

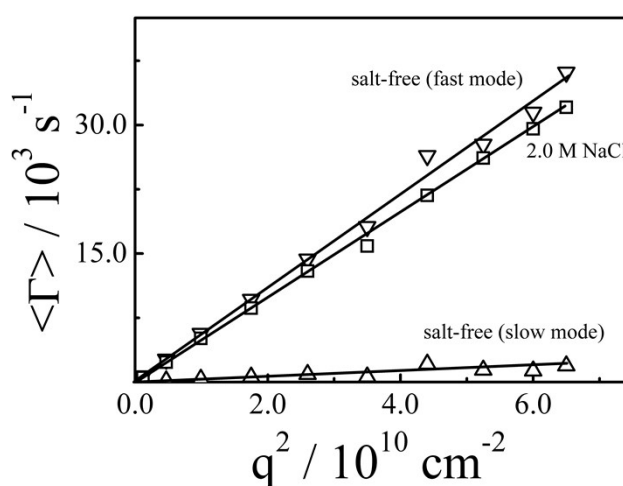


Fig. S2. Scattering vector (q) dependence of average characteristic line width (Γ) of PSB in salt-free solution and 2.0 M NaCl solution, where $C_p = 0.02$ g/L.