



**FTIR Spectra:**

Presence of Azide end groups were observed by FTIR (Cm-1): 2118(s) and compare with Carbonyl 1735 (s).

**Calibration for FTIR:**

Methyl 2- azidopropionate and Bromo end functionalized poly methyl acrylate were mixed in several ratios in CHCl<sub>3</sub> and FTIR were made in CHCl<sub>3</sub> in a solution cell. The integration of the peak corresponding to the azide and carbonyl groups were compared. It gives you an approximate functionalization. The details are reported in our publication: Xing Fu. Zhong, S. K. Varshney, and A. Eisenberg

"Critical Micellization Length for Polystyrene-b-Na-Acrylate Block Ionomers" CA Vol 117, 26, 2522-80 Macromolecules 1992, 25, 7160-7167.