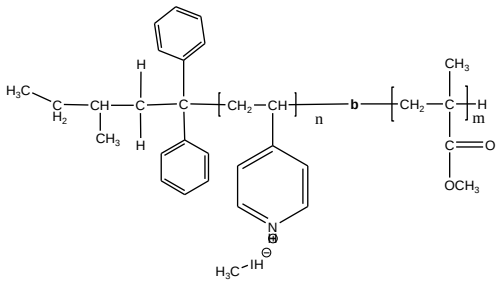
Sample Name:

Poly(4-vinyl pyridine, quaternized with methyl iodide)-b-poly(methyl methacrylate)

Sample #: **P2308-4VPQMMA**

Structure:



Composition:

Mn x 10^3 4VP-b-MMA	Mw/Mn (PDI)
32.5-b-110.5	1.2

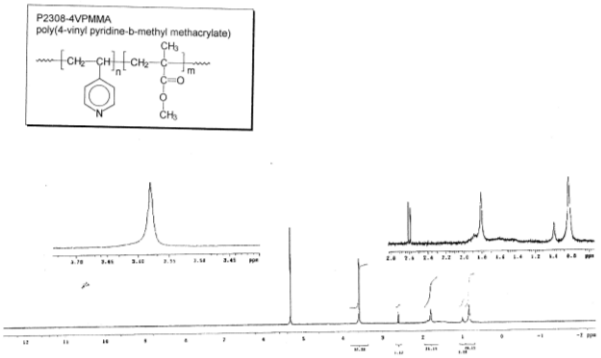
Synthesis Procedure:
The polymer was synthesized by anionic process and quaternization in DMF with CH_3I at RT.

Characterization:
The polymer was characterized by SEC, ^{1}H NMR and FTIR.

Solubility:
Poly(4-vinyl pyridine-b-methyl methacrylate) is soluble in THF, DMF and also in water depending on the compositions of quaternized fraction.

Reference:
S. K. Varshney, X. F. Zhong and A. Eisenberg, Anionic homopolymerization and block copolymerization of 4-vinylpyridine and its investigation by high-temperature size-exclusion chromatography in N-Methyl-2-Pyrrolidinone. CA 118, 12, 102658, ***Macromolecules***, **1993**, 26, 701-706.

^{1}H NMR spectrum of the Diblock copolymer: Due to small % of 4VP fraction that could not be detected from HNMR



(Composition were calculated from GPC)