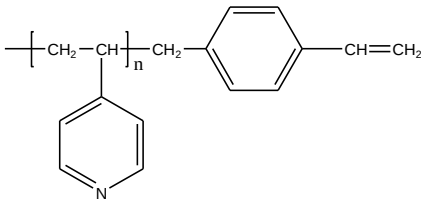
Sample Name:
Vinyl Terminated Poly(4-Vinyl Pyridine)

Sample #: P635- 4VPvinyl

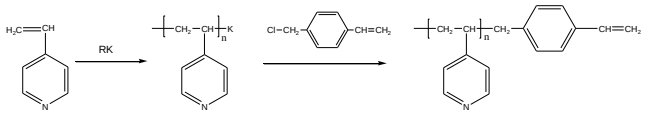
Structure:



Composition:

Mn x 10^3	PDI
7.4	1.26

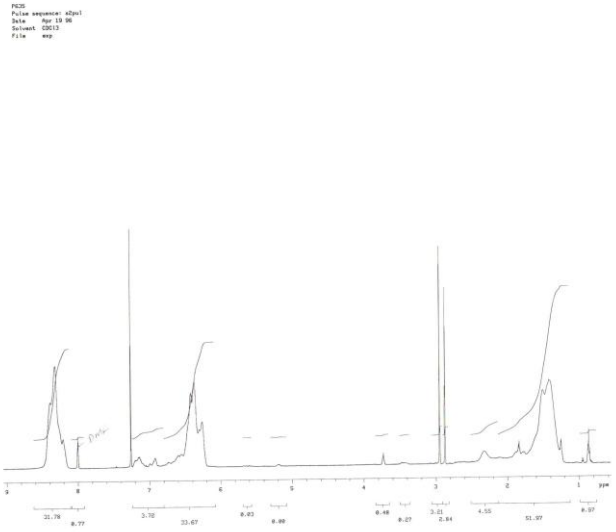
Synthesis Procedure:
Vinyl terminated poly(4-vinyl pyridine) was prepared by living anionic polymerization of 4-vinyl pyridine, followed by termination with 4-chloromethyl styrene. The scheme of the reaction is illustrated below:



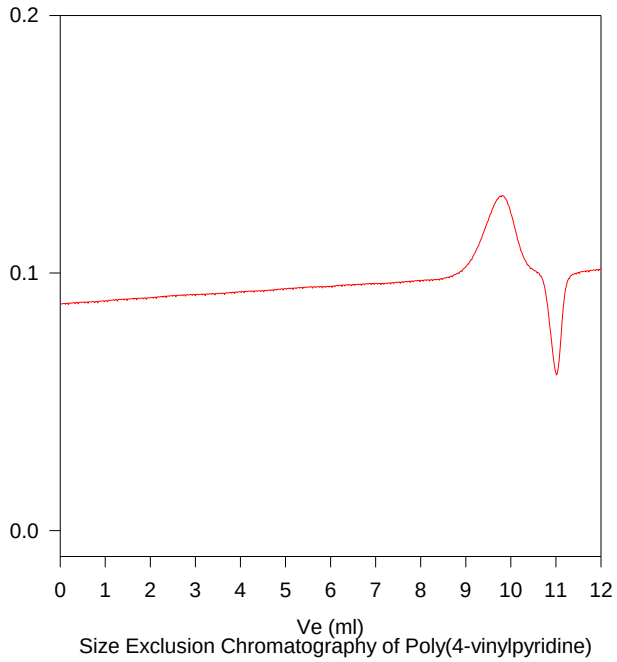
Characterization:
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. Eluent was DMF.

Solubility:
Soluble in Methanol, THF and DMF.

HNMR of the Product:



SEC of Sample:



Size Exclusion Chromatography of Poly(4-vinylpyridine)
M_n=7400, M_w=9300, PI=1.26

Reference:

1. 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 Vol 118, 12, 102658 Macromolecules, 1993, 26, 701-706.