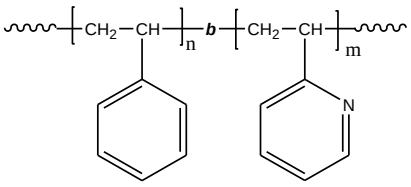
Sample Name:
Polystyrene-*block*-poly (2-vinyl pyridine)

Sample #: **P42138-S2VP**

Structure:



Composition:

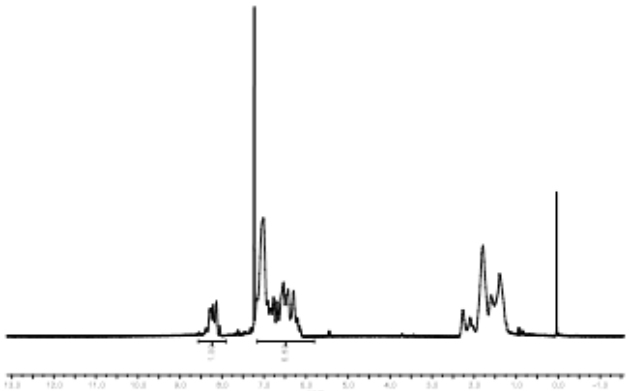
Mn x 10^3 PS-b-2VP	PDI
49.0-b-49.0	1.08

Synthesis Procedure:
Polystyrene-*b*-poly (2-vinyl pyridine) was prepared by living anionic polymerization in THF at –78ºC in the presence of LiCl as an additive.

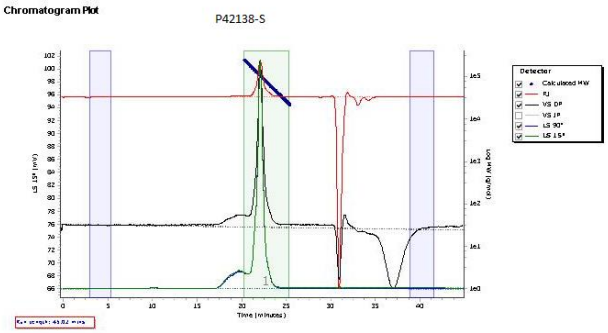
Characterization:
The product was characterized by size exclusion chromatography (SEC) and ^{1}H NMR.

Solubility:
Poly (styrene-b-2 vinylpyridine) is soluble in THF, toluene, and CHCl3. The diblock copolymer can also be solubilized in methanol, ethanol depending on its composition. The polymer readily precipitates from hexanes, ether and water.

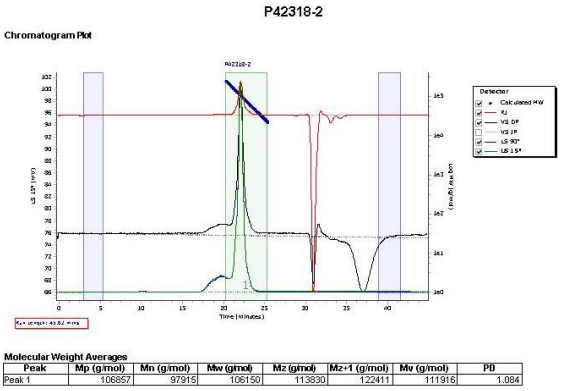
H-NMR Spectrum of the Sample:



SEC elugram of the S block:



SEC elugram of the Sample:



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	106857	97915	106150	113830	122411	111916	1.084