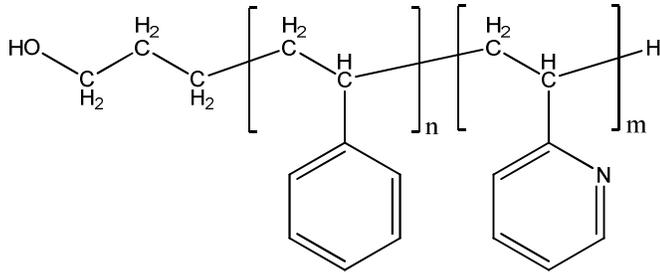


**Sample Name: Hydroxy terminated Poly(styrene-b-2 vinyl pyridine)**

**Sample #: P19901- HOS2VP**

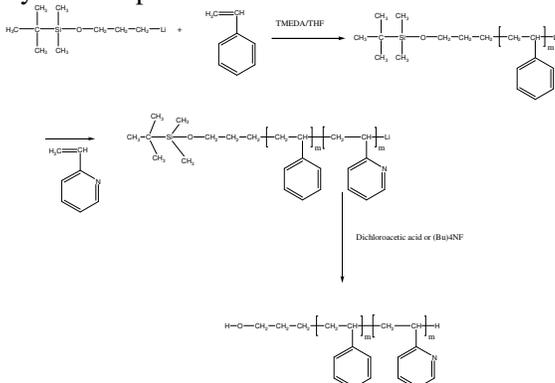
**Structure:**



**Composition:**

Mn x 10 <sup>3</sup> S-b-2VP	PDI
34.0-b-15.5 (From <sup>1</sup> H NMR)	1.2
T <sub>g</sub> for PS block	102°C

**Synthesis Procedure:** The polymer was synthesized by anionic process.



**Characterization:** The polymer was characterized by SEC and <sup>1</sup>H NMR.

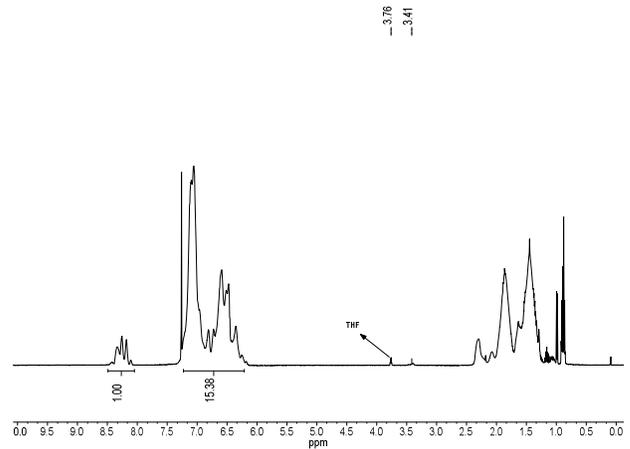
**Purification:**

Purification of the obtained polymer was carried out rigorously as follows to ensure the removal of the catalyst side product:

1. Polymer first soxhlet in cyclohexane to remove trace amount of homopolystyrene fraction if any present.
2. Dissolved the polymer in CHCl<sub>3</sub> and wash with de-ionized distilled water to remove any soluble organic catalyst side product.
3. Polymer extracted from water with chloroform.
4. Polymer solution in CHCl<sub>3</sub> was dried over anhydrous sodium sulfate.

5. Solution filtered and then passed through a column packed with basic Al<sub>2</sub>O<sub>3</sub>.
6. Solution concentrated on rota-evaporator
7. Solution precipitated in cold hexane
8. Final dried under vacuum for 48h at 5<sup>00</sup>C:

**<sup>1</sup>H NMR spectrum of the polymer:**

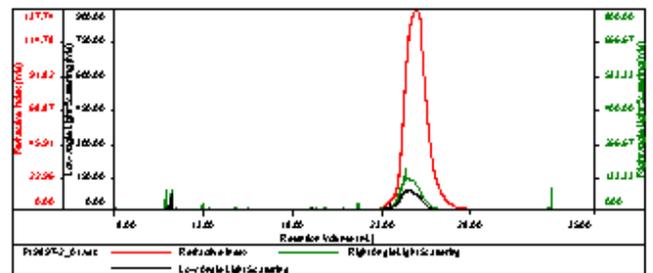


**SEC elugram of the product:**

Sample ID: P19901-S

Sample ID: P19901- OH Protected S-2VP

Concentration (mg/mL)	2.6516
Sample chkbk (mL/g)	0.1880
Method File	P880K:\April-18-2016\0001.vim
Column Set	3x PL 110-6000
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
2_01.txt	49,970	61,242	1.226	0.7761	56,122