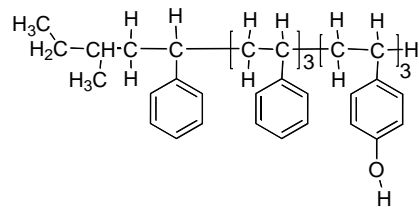


**Sample Name:** Poly (styrene-*b*-4-hydroxy styrene)

**Sample #:** P41155-S4OHS

**Structure:**

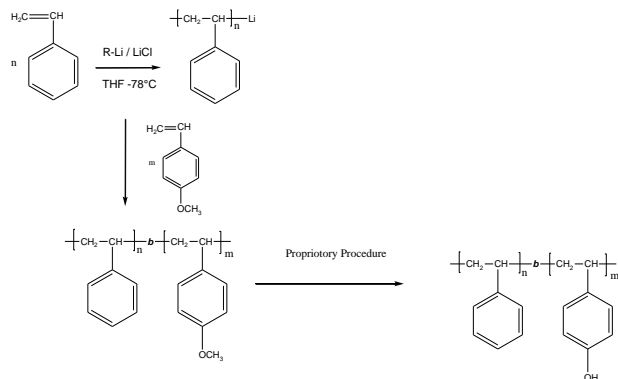


**Composition:**

Mn x 10 <sup>3</sup> S-b-4HOS	Mw/Mn (PDI)
1.1-b-4.2	1.09

**Synthesis Procedure:**

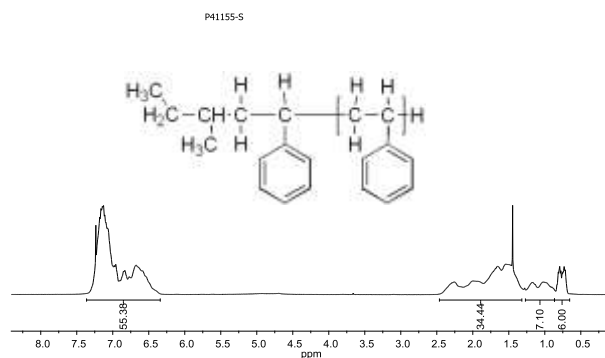
The following reaction scheme shows how the product was prepared:



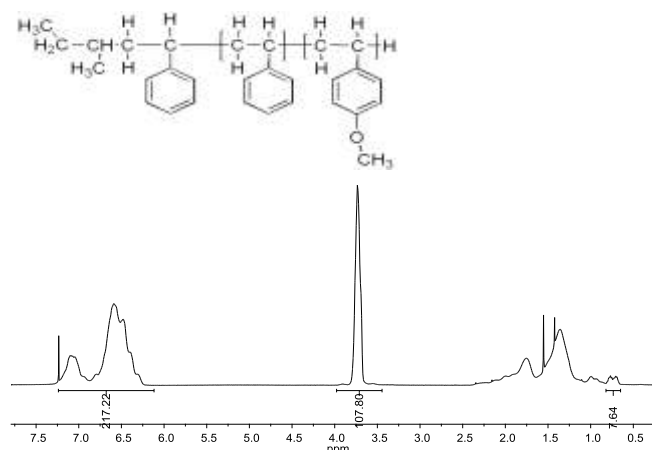
**Characterization:**

The product was characterized by size exclusion chromatography (SEC), <sup>1</sup>H NMR and FTIR.

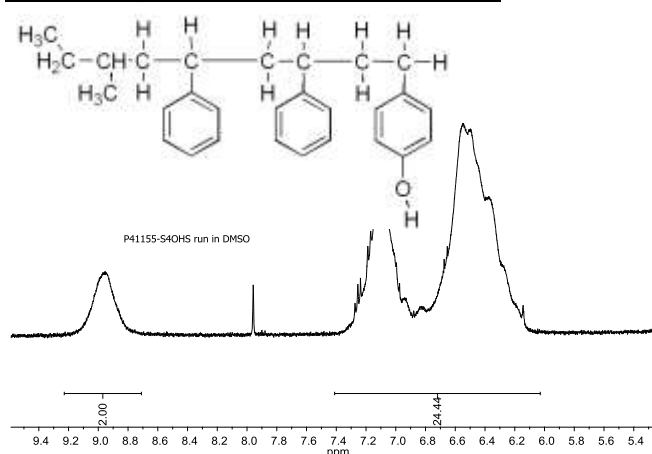
**<sup>1</sup>H NMR spectrum of S Block:**



**<sup>1</sup>H NMR spectrum of the P(S-*b*-4MeOS):**

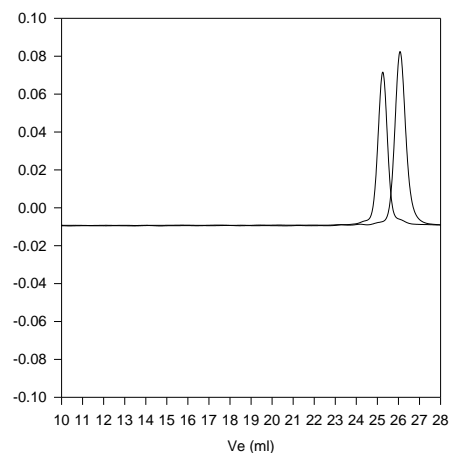


**<sup>1</sup>H NMR spectrum of the P(S-*b*-4OHS):**



**SEC profile of the block copolymer**

**P41155-S4CH3OS**  
(precursor for P41155-S4OHS)



— Polystyrene, M<sub>n</sub>=1,100, M<sub>w</sub>=1,200, PI=1.04  
— Block Copolymer PS(1200)-*b*-P4MeOS(4700), PI=1.09  
After deprotecting OCH<sub>3</sub> Mn: (1,100-*b*-4,200) Mw/Mn 1.09