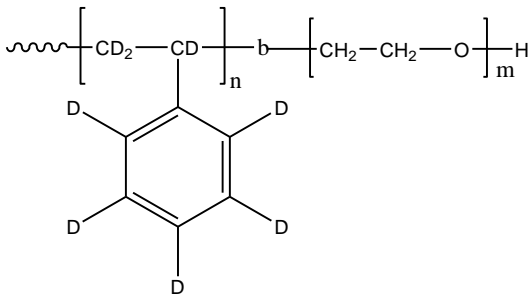


Sample Name: Deuterated Polystyrene (d<sub>8</sub>)-b-ethylene oxide (protonated)

Sample #: P18189A-dPSEO

Structure:



Composition:

Mn x 10 <sup>3</sup> dPS-b-EO	PDI
9.5-b-14.5	1.25

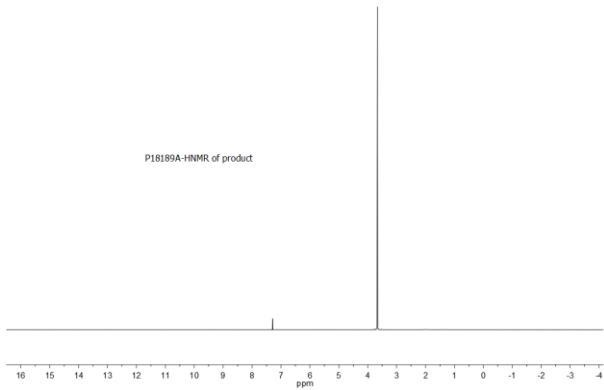
Synthesis Procedure:

Deuterated Polystyrene-b-ethylene oxide (protonated) diblock copolymer is prepared by living anionic polymerization.

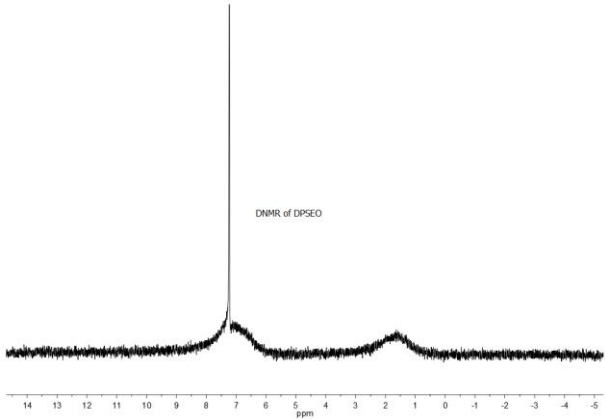
Characterization:

The molecular weight and polydispersity index (PDI) of the block copolymer are characterized by size exclusion chromatography (SEC). The yield of the polymer from the theoretical amount of deuterated styrene and protonated ethylene oxide monomer can be used to calculate the approximate compositions.

HNMR spectrum of the polymer:

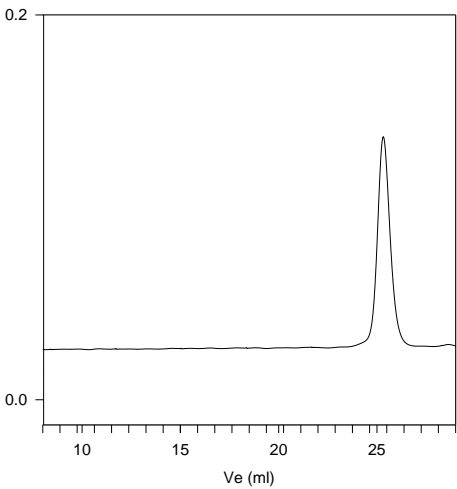


DNMR spectrum of the Polymer



SEC of the first block dPS:

P18189-1-dPS



deuterated Polystyrene, M<sub>n</sub>=9,500, M<sub>w</sub>=10,000 PI=1.05

SEC of the diblock dPSEO:

P18189A-dPSEO

Concentration (mg/mL)	0.0000
Sample dn/dc (mL/g)	0.0000
Method File	PS105K-April16-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

