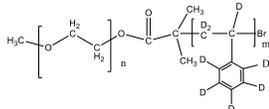


Sample Name: Deuterated Polystyrene (d₈)- ethylene oxide (protonated)

Sample #: P44013-dPSEO

Structure:

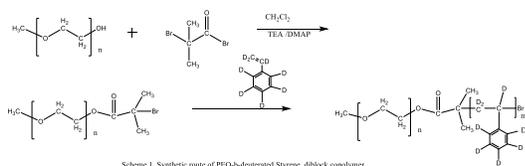


Composition:

Mn x 10 ³ dPS-b-EO	PDI
10.5-b-9.5	1.16

Synthesis Procedure:

Deuterated Poly(styrene-b-ethylene oxide) diblock copolymer is prepared by ATRP Process using Bromo end functionalized Poly ethylene glycol.

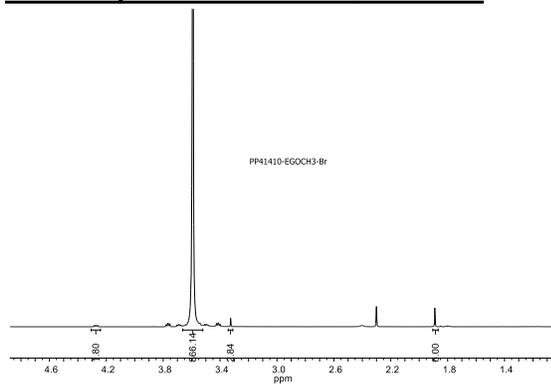


Scheme 1. Synthetic route of PEO-b-dPS diblock copolymer

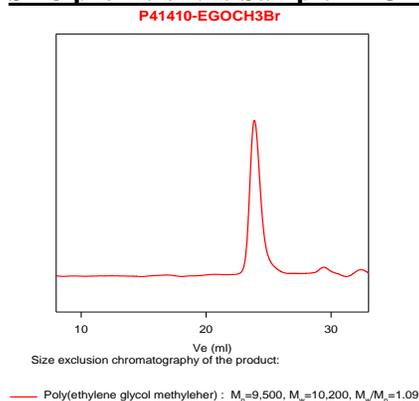
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H NMR data analysis.

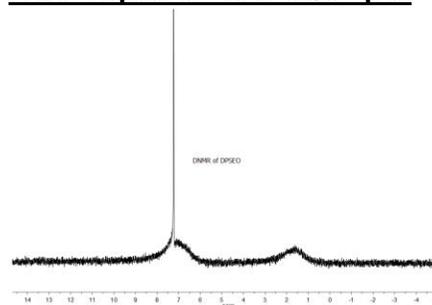
HNMR spectrum of the PEG-Br used:



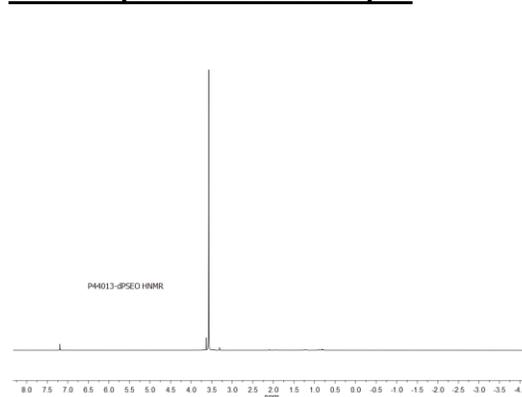
SEC profile of the Sample PEGBr used:



DNMR spectrum of the Sample:



HNMR spectrum of the Sample:



SEC profile of the Sample:

