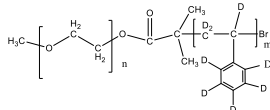


Sample Name: Deuterated Polystyrene (d₈)- ethylene oxide (protonated)

Sample #: P44013-dPSEO

Structure:

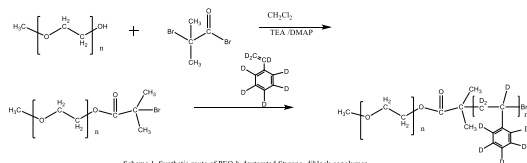


Composition:

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.

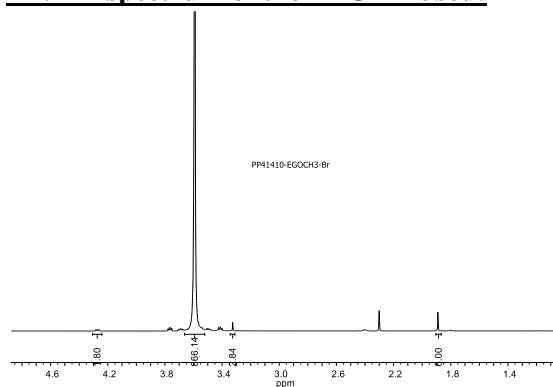


Scheme 1: Synthetic route of PEO-b-dPS diblock copolymer

Characterization:

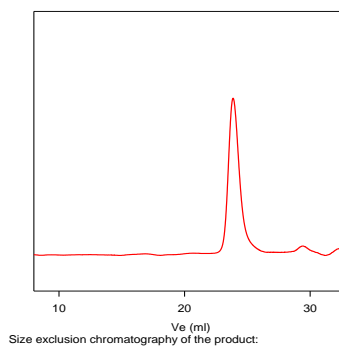
The product was characterized by size exclusion chromatography (SEC) and ¹H NMR data analysis.

HNMR spectrum of the PEG-Br used:



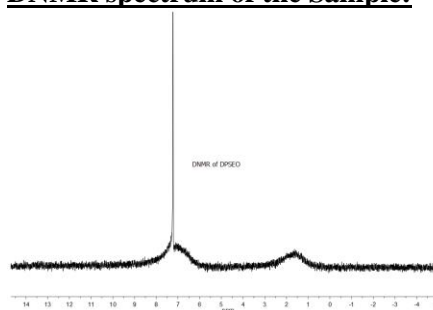
SEC profile of the Sample PEGBr used:

P41410-EGOOH3Br

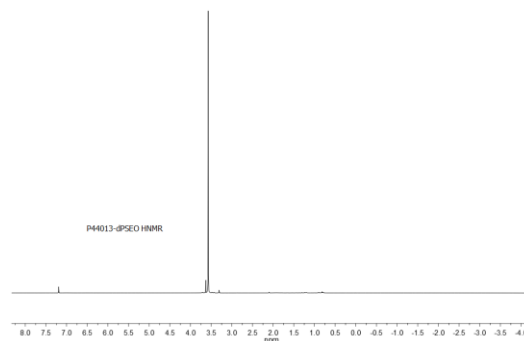


Poly(ethylene glycol methylether) : M_n=9,500, M_w=10,200, M_w/M_n=1.09

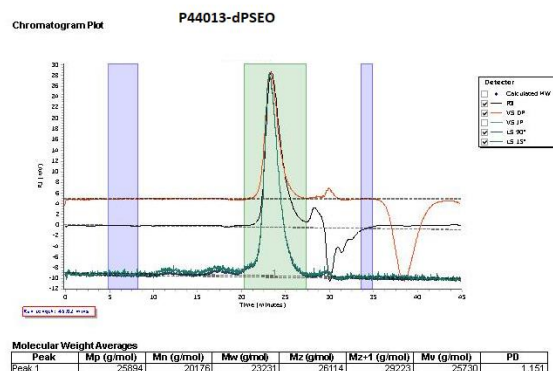
DNMR spectrum of the Sample:



HNMR spectrum of the Sample:



SEC profile of the Sample:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PDI
Peak 1	25894	20176	23231	26114	29223	28730	1.151