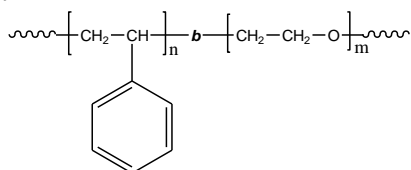


Sample Name: Poly(styrene-b-ethylene oxide)

Sample #: P44010-SEO

Structure:



Composition:

Mn x 10 ³	PDI
12.0-b-15.0	1.02

Synthesis procedure:

Poly(styrene-b-ethylene oxide) diblock copolymer was prepared by living anionic polymerization.

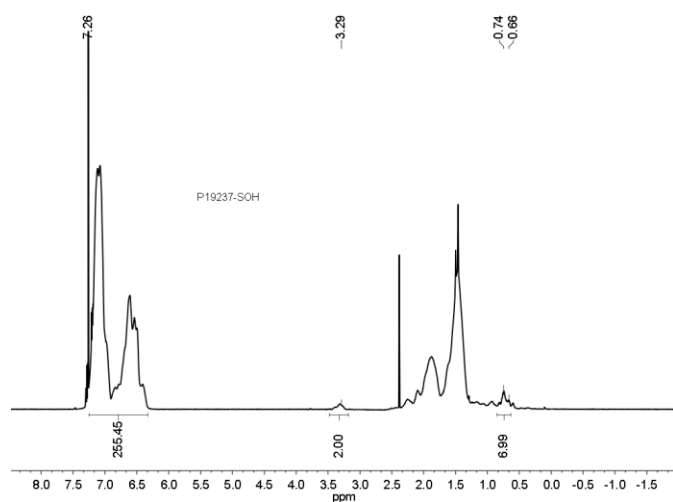
Characterization:

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

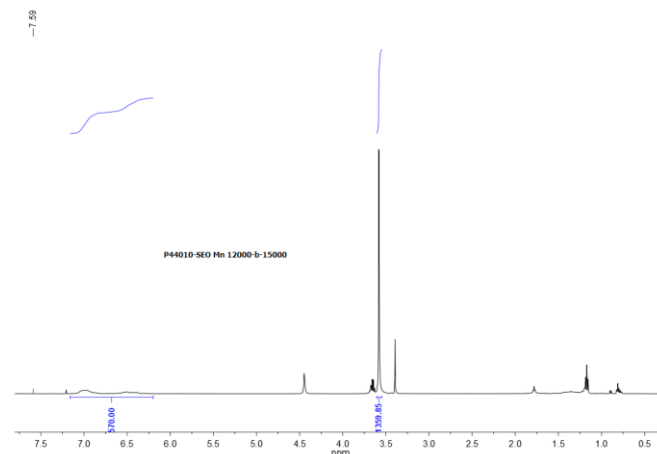
Solubility:

The polymer is soluble in THF (at 35 °C), CHCl₃, benzene, toluene, dioxane. Low molecular weight SEO with high contents of the polyethylene oxide block can also be solubilized in methanol and water.

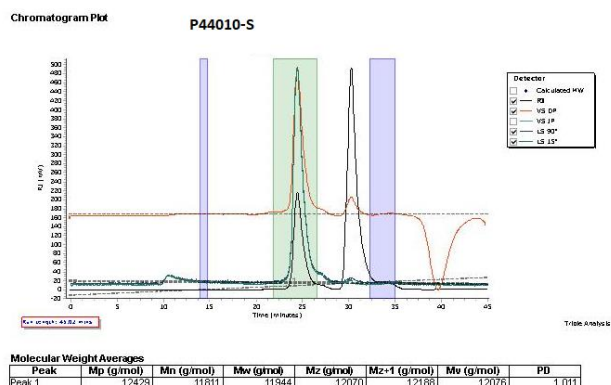
¹H NMR spectrum of PS-OH used:



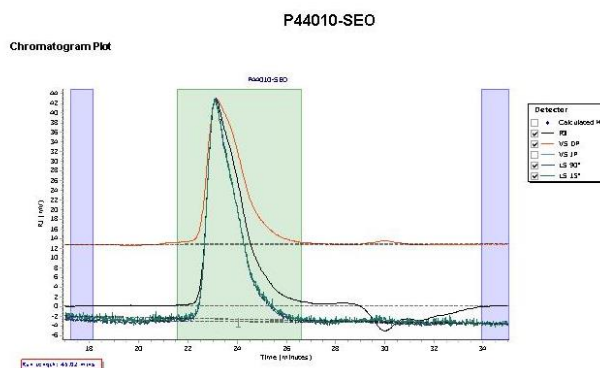
¹H NMR spectrum of PS-PEO (500 MHz, CDCl₃):



SEC elograms of PS and PS-PEO:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mw (g/mol)	PDI
Peak 1	12429	11811	11944	12070	12188	12076	1.011



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mw (g/mol)	PDI
Peak 1	30030	26880	27242	27741	26186	27641	1.021