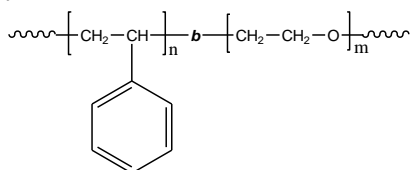


**Sample Name:** Poly (styrene-b-ethylene oxide)

**Sample #:** P41501-SEO

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
647.0-b-80.0	1.6

**Synthesis Procedure:**

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

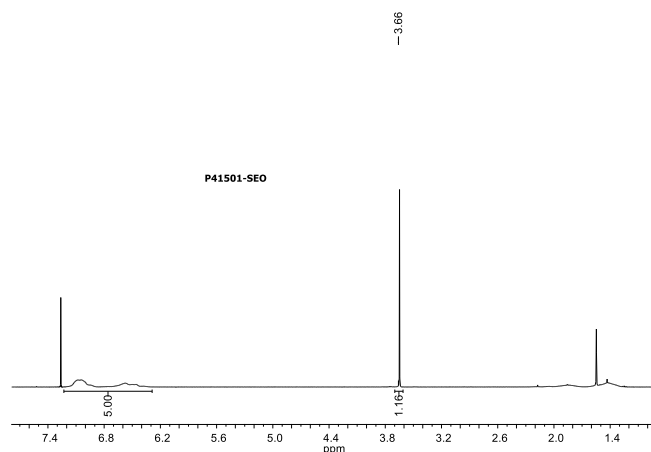
**Characterization:**

The polymer is characterized by size exclusion chromatography (SEC) and  $^1H$ -NMR.

**Solubility:**

The polymer is soluble in THF,  $CHCl_3$ , benzene, toluene, dioxane. Low molecular weight SEO with high contents of the polyethylene oxide block can also be solubilized in methanol and water.

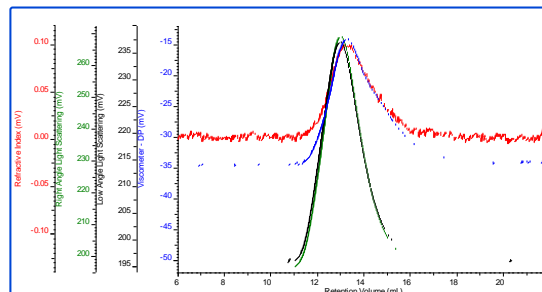
**$^1H$  NMR spectrum of the sample:**



**SEC elugram of the block polymer:**

P41501P-SEO

dn/dc	0.1500
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS



Sample	$M_n$	$M_w$	$M_z$	IV	$M_w/M_n$
P41501P-SEO_1_201	726,845	1.195 e 6	1.629 e 6	1.0000	1.643