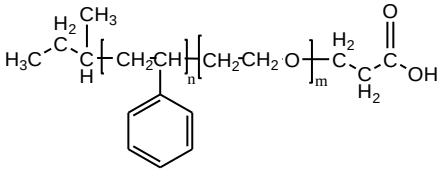
Sample Name: **Carboxylic acid end functionalized Poly(styrene-b-ethylene oxide)**

Sample #: **P40940-SEOCOOH**

Structure:



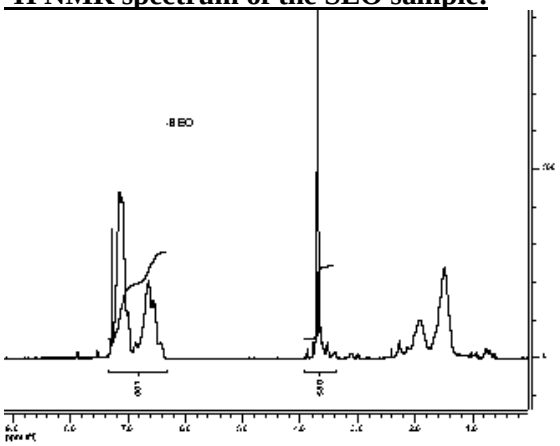
Composition:

Mn x 10^3 S-b-EO	5.0-b-2.2
PDI	1.08
COOH functionality by HNMR/titration	> 98 %

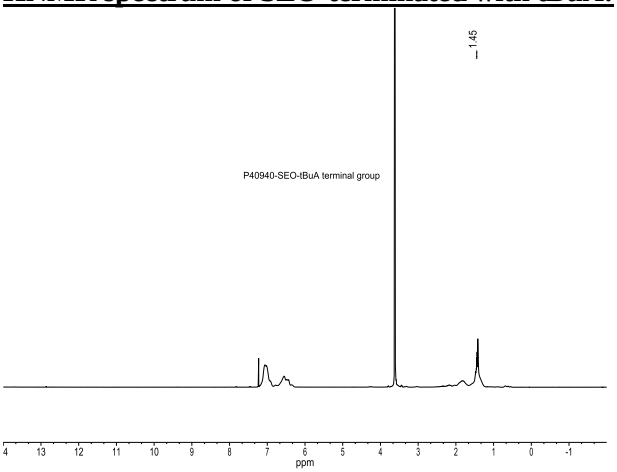
Synthesis Procedure:
Carboxylic acid end functionalized Poly(styrene-b-ethylene glycol) was synthesized by living anionic polymerization of styrene and ethylene oxide monomer, followed by the conversion of hydroxyl end group into COOH.

Characterization:
The product was characterized by size exclusion chromatography (SEC), and ^{1}H NMR.

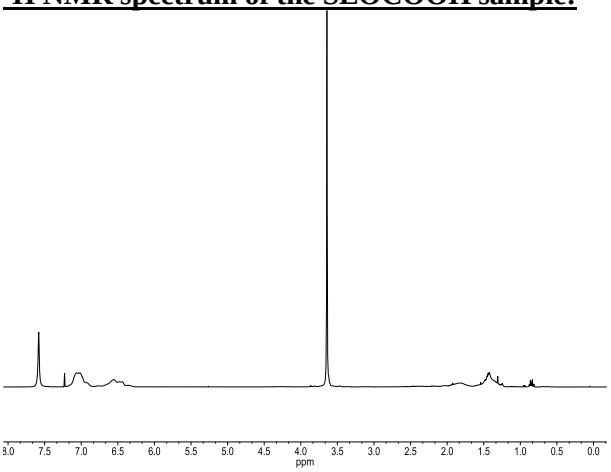
^{1}H NMR spectrum of the SEO sample:



HNMR spectrum of SEO-terminated with tBuA:



^{1}H NMR spectrum of the SEOCOOH sample:



SEC profile of the block copolymer