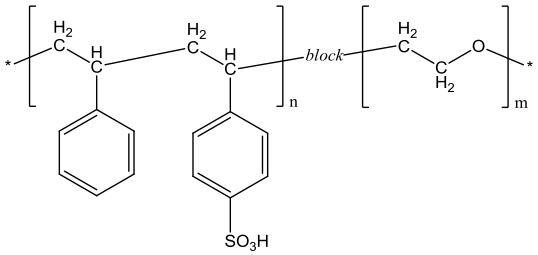
Sample Name:

Poly (styrene sulfonic acid–*b*–ethylene oxide)

Sample #: **P40903-SSAEO**

Structure:



Composition:

Mn x 10^3 SSA–b–EO	M_w/M_n	Degree of sulfonation:
10.0–b-10.0	1.07	8%

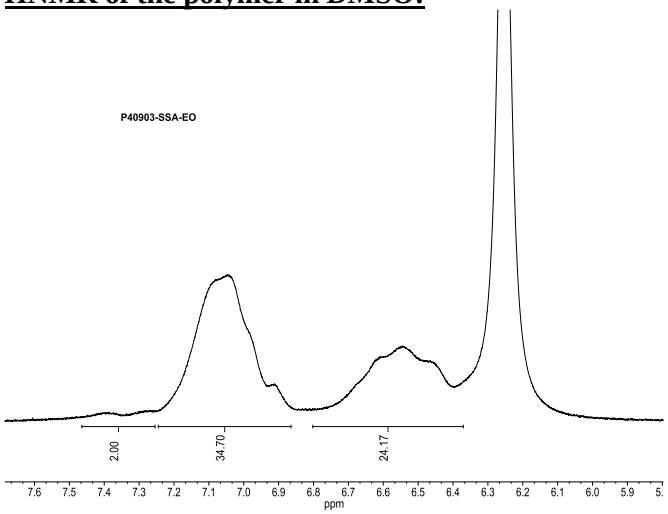
Synthesis:

The polymer was synthesized by anionic polymerization process followed by sulfonation.

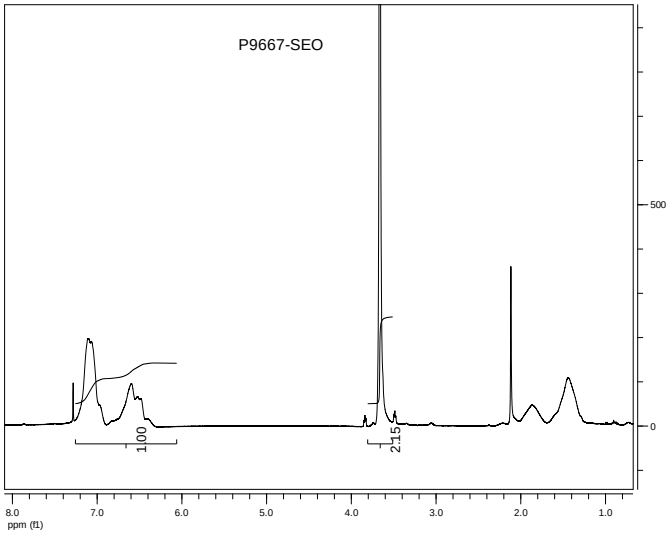
Characterization:

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

HNMR of the polymer in DMSO:

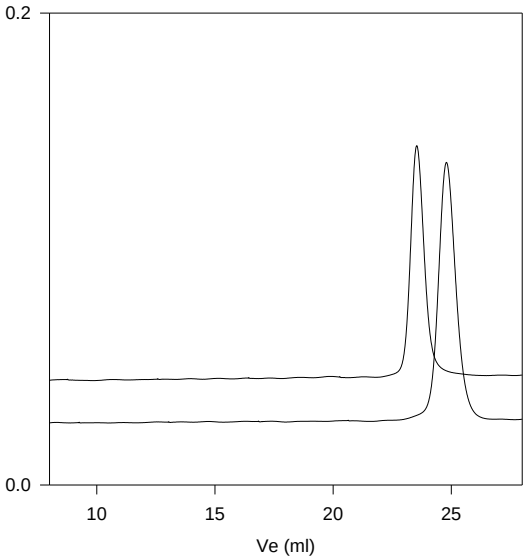


^{1}H NMR spectrum of the Polymer used for sulfonation:



SEC profile of the Polymer used for sulfonation:

P9667-SEO



Size Exclusion Chromatography:

Polystyrene, M_n=9,000, M_w=9,500, PI=1.05

Block Copolymer Polystyrene-b-Poly(ethylene oxide)

Mw: PS(9,000)-b-PEO(10.000), PI=1.07