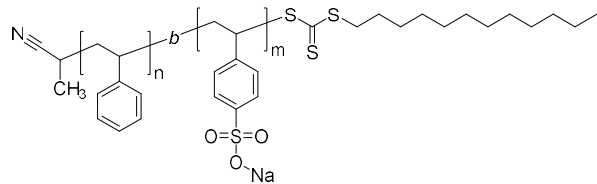


Sample Name: Poly (styrene -b- Styrene sulfonic acid sodium salt)

Sample #: P16412-S-SSO3Na

Structure:

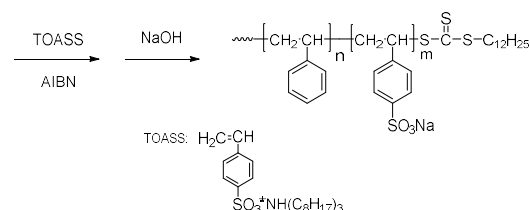
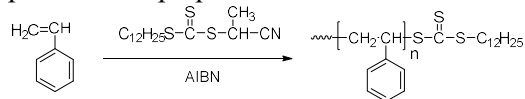


Composition:

$M_n \times 10^3$ PS-b-PSSO3Na	PDI
12.5-b-3.5	1.02

Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process. The following reaction scheme shows how the product was prepared:



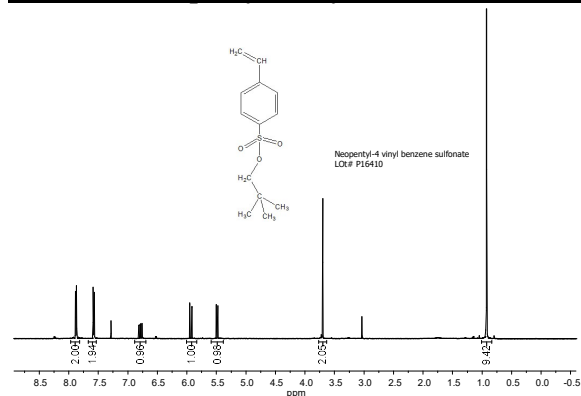
Characterization:

The product was characterized by size exclusion chromatography (SEC) in DMF as eluent and ^1H NMR.

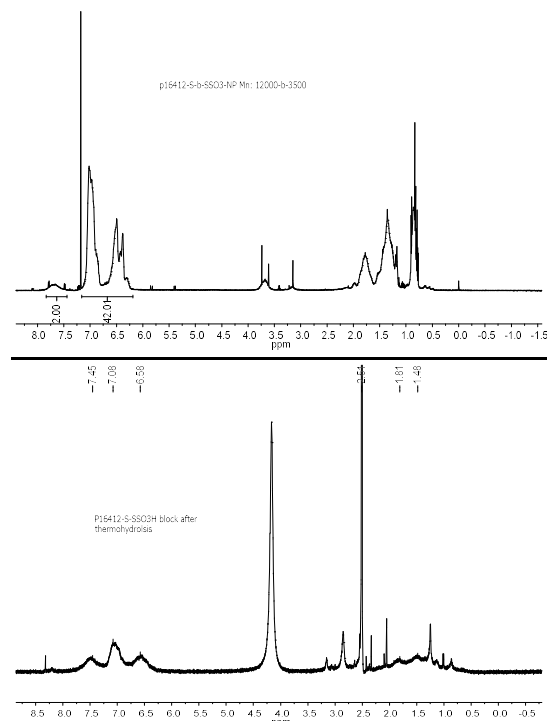
Solubility:

The polymer is soluble in DMSO.

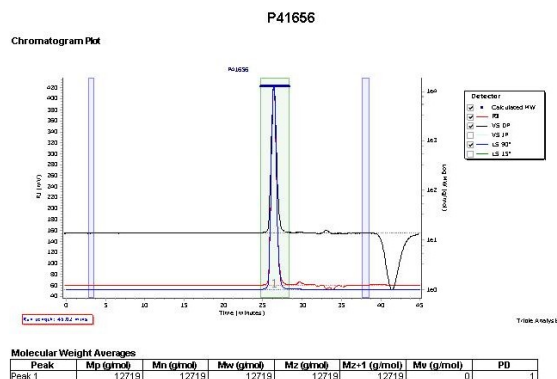
^1H NMR of Neopentyl -4-styrene sulfonate monomer:



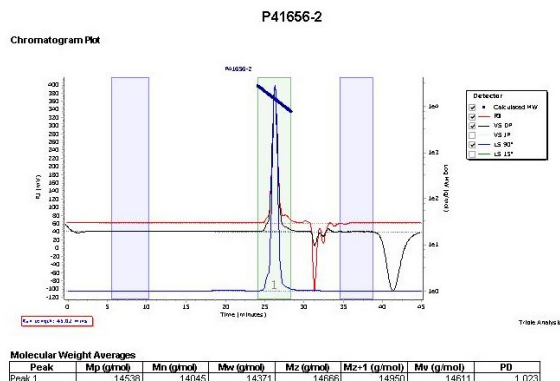
^1H NMR spectrum of the Sample:



SEC of the block copolymer:



SEC of PStyrene-b-4- Neopentyl Styrene sulfonate:



To check the Mw/Mn and composition calculated from ^1H NMR