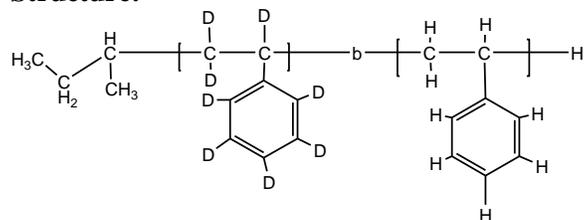


**Sample Name: Deuterated Polystyrene (d<sub>8</sub>)-b-Polystyrene (protonated)**

**Sample #: P4158A-dPSS**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup> dPS-b-S	PDI
210.0-b-16.0	1.10

**Synthesis Procedure:**

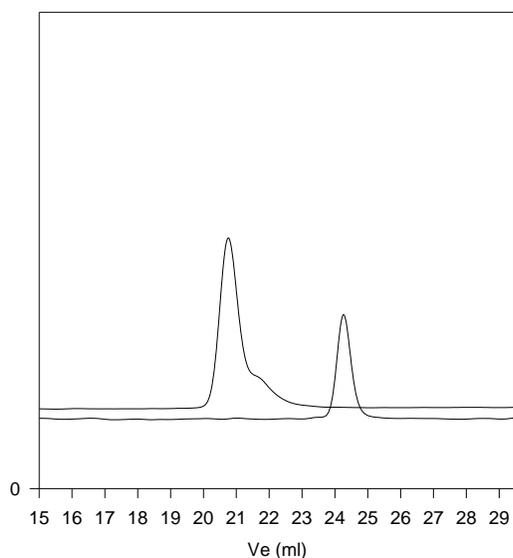
The polymer was synthesized by anionic polymerization Process by successive addition of monomer. Styrene first followed by d8 (S) monomer

**Characterization:**

The product was characterized by size exclusion chromatography (SEC).

**SEC profile of the polymer:**

**P4158A-SdPS**



Size exclusion chromatography of polystyrene-b-deuterated (d<sub>8</sub>)Styrene

— polystyrene, M<sub>n</sub>=16000, M<sub>w</sub>=17000, PI=1.06

— Block Copolymer PS(16000)-b-dPS(210000), PI=1.10