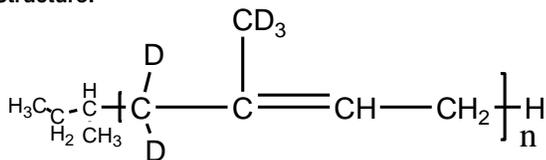


**Sample Name:**  
**Deuterated Polyisoprene-d5 (1,4-addition)**  
**Sample #: P19000-d5PIP**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
0.6	1.05

**Synthesis Procedure:**

Polyisoprene is obtained by anionic polymerization deuterated (d5) isoprene.

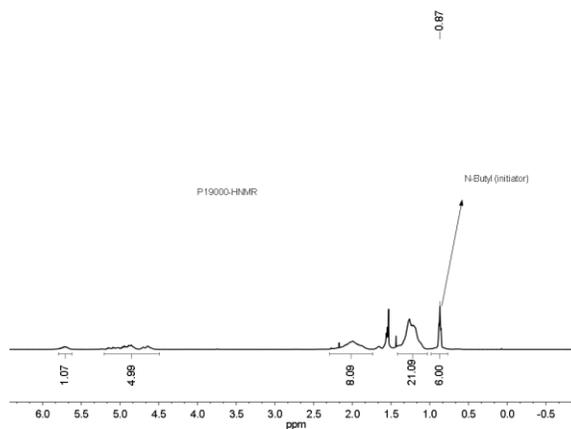
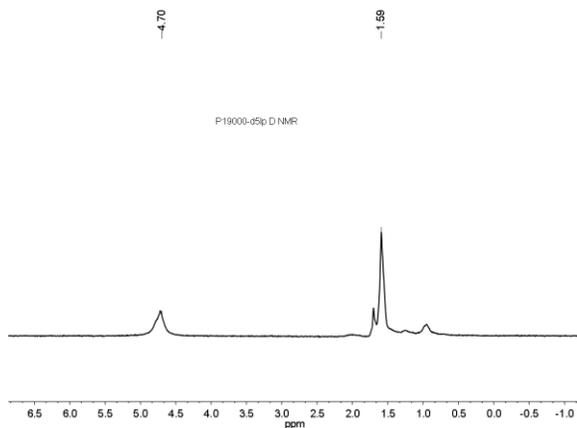
**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

**Solubility:**

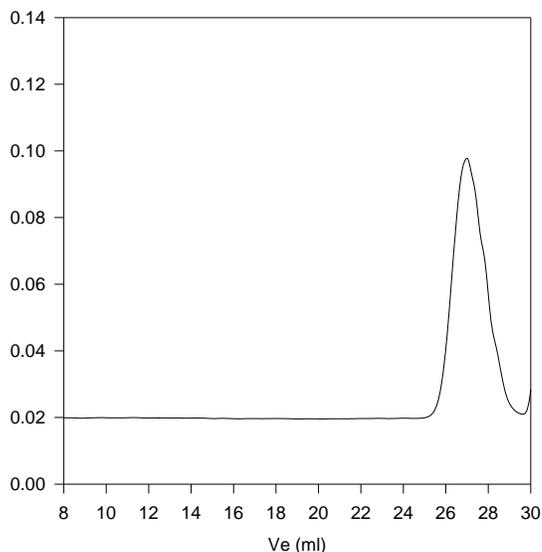
Polymer is soluble in THF, toluene, hexane and chloroform. This polymer precipitates from methanol.

**H NMR:**



**SEC of Sample:**

**P19000-d5IP**



Size exclusion chromatograph of deuterated poly isoprene (d5)  
M<sub>n</sub>=600 Mw/Mn = 1.05