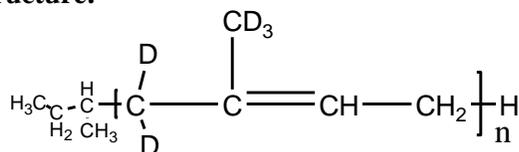


**Sample Name: Deuterated Poly(1,4-isoprene-d5)**

**Sample #: P43132-d5PIp**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
3.5	1.11

**Synthesis Procedure:**

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

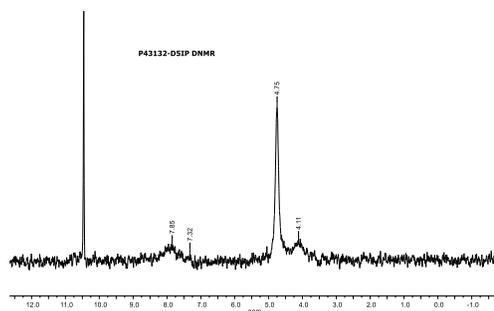
**Characterization:**

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.

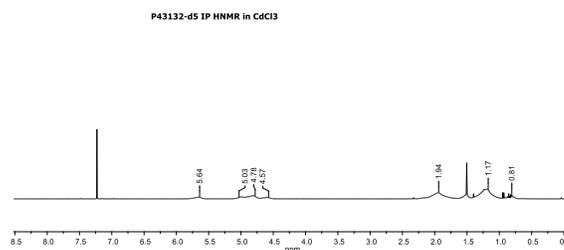
**Solubility:**

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

**D NMR spectrum of the Sample:**



**HNMR spectrum of the polymer:**



**SEC elugram of the Sample:**

