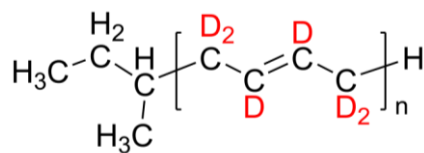


**Sample Name:** Deuterated Poly(1,4-butadiene-d6),  
end-groups are hydrogen-containing

**Sample #:** P43341B-dBd

**Structure:**

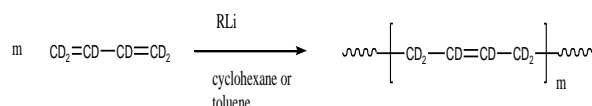


**Composition:**

Mn x 10 <sup>3</sup>	Mw/Mn
7.0	1.04

**Synthesis Procedure:**

Deuterated polybutadiene-d<sub>6</sub> was obtained by living anionic polymerization of butadiene-d<sub>6</sub> monomer:



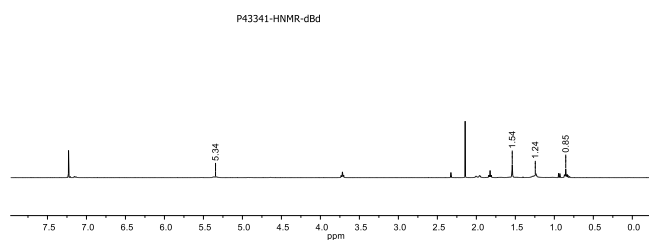
**Characterization:**

The molecular weight and polydispersity index (M<sub>w</sub>/M<sub>n</sub>) of the deuterated poly butadiene 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 from Viscotek Co. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used.

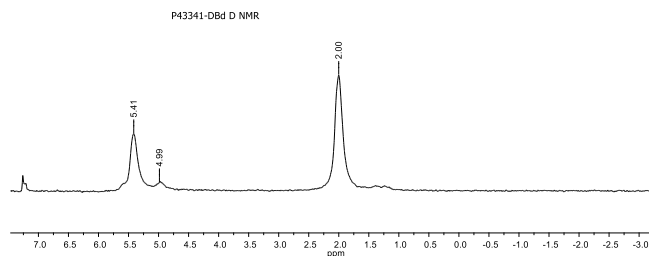
**Solubility:**

Polymer is soluble in toluene, THF and CHCl<sub>3</sub>.

**H NMR spectrum of the Sample:**



**D NMR spectrum of the Sample:**



**SEC elugram of the polymer:**

