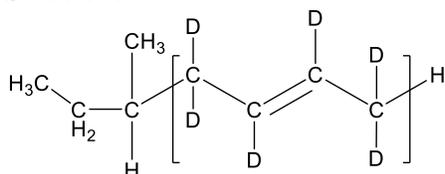


Sample Name:  
**Deuterated Polybutadiene-*d*<sub>6</sub>**  
 (predominantly 1,4-addition), protonated  
 end-groups.

Sample #: **P44565-dBd**

**Structure:**

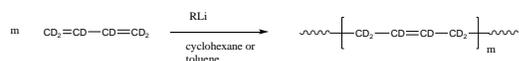


**Composition:**

Mn x 10 <sup>3</sup>	PDI
0.8	1.13

**Synthesis Procedure:**

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



**Characterization:**

The molecular weight and polydispersity index (PDI) 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>.

**SEC profile of the product:**

