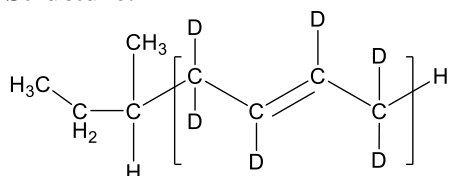


Sample Name:

Deuterated Polybutadiene-*d*₆
(predominantly 1,4-addition), protonated
end-groups.

Sample #: **P44565-dBd**

Structure:

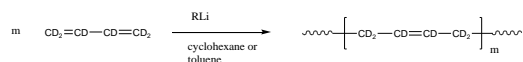


Composition:

Mn x 10 ³	PDI
0.8	1.13

Synthesis Procedure:

Deuterated polybutadiene -*d*₆ is obtained by living anionic polymerization of *d*₆ 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 CHCl₃.

SEC profile of the product:

