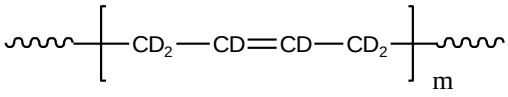
Sample Name: **Deuterated Polybutadiene-d_6 (predominantly 1,4-addition), protonated end-groups**

Sample #: **P41798-dPBd**

Structure:

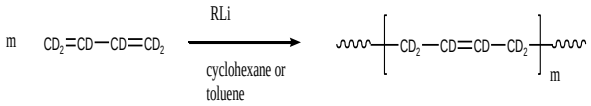


Composition:

Mn x 10^3	Mw/Mn
60.5	1.04

Synthesis Procedure:

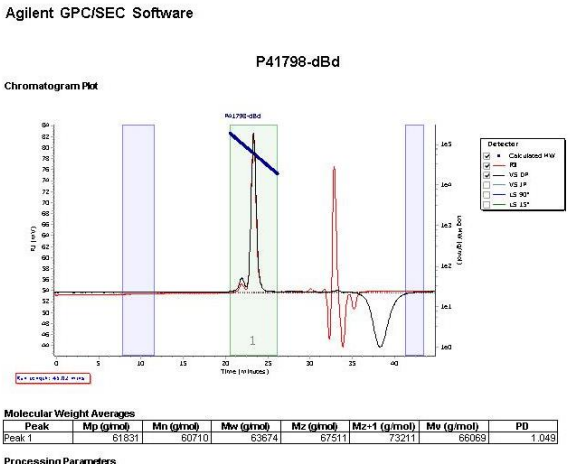
Deuterated polybutadiene-d_6 was obtained by living anionic polymerization of butadiene-d_6 monomer:



Characterization:

The molecular weight and polydispersity index (M_w/M_n) 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 $CHCl_3$.

SEC elugram of the polymer: