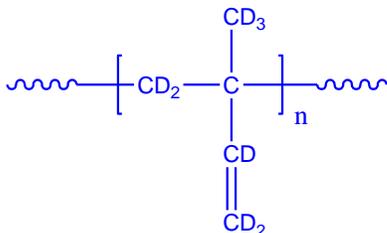


Sample Name:
Deuterated Polyisoprene-d8 (1,2-addition)

Sample #: P9922A-dPIp

Structure:

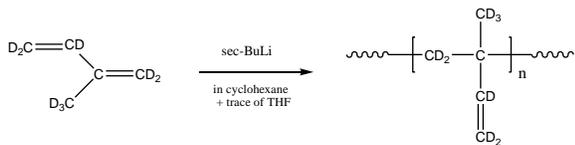


Composition:

$M_n \times 10^3$	PDI
4.5	1.18

Synthesis Procedure:

Polyisoprene is obtained by anionic polymerization of deuterated (d8) isoprene, which contains 1% of THF.



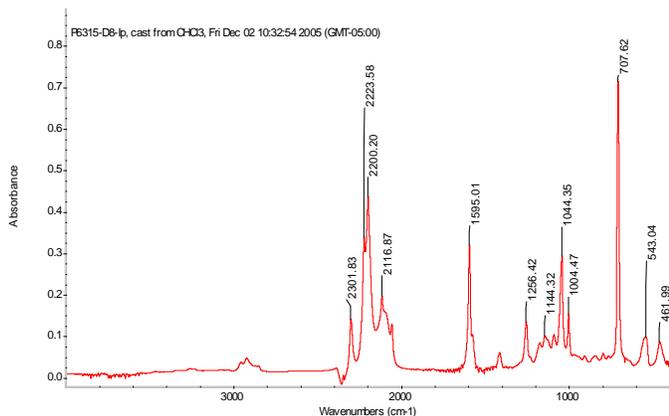
Characterization:

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:

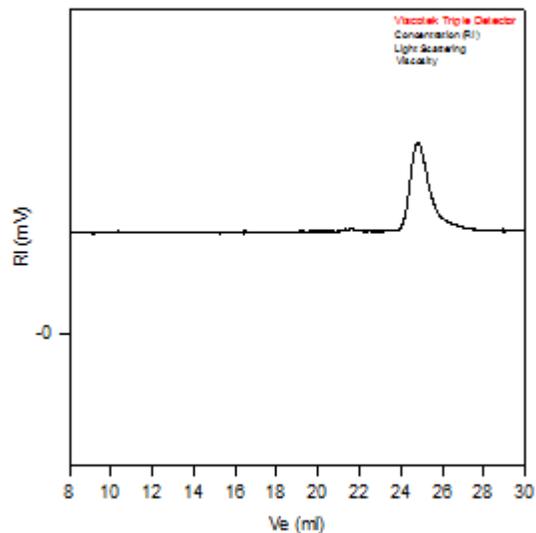
Polymer is soluble in THF, toluene, hexane and chloroform. This polymer precipitates from methanol.

FTIR of Sample:



SEC of Sample:

P9922A-dPIp (1,2 addition)



Size Exclusion Chromatography of
 $M_n = 4,500$, $M_w = 5,200$, $M_w/M_n = 1.18$

Deuterium NMR of Monomer:

