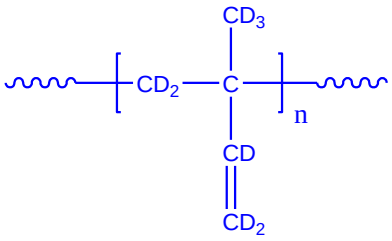
Sample Name:
Deuterated Polyisoprene-d8 (1,2-addition)

Sample #: **P9922-dPIp**

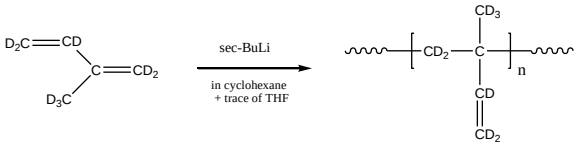
Structure:



Composition:

Mn x 10^3	PDI
14.0	1.18

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

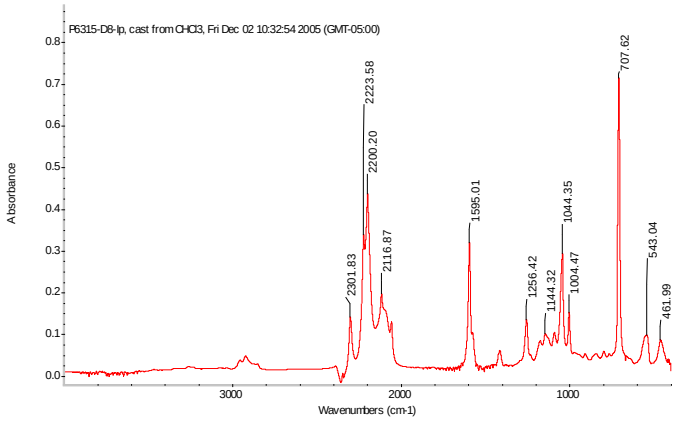


Characterization:

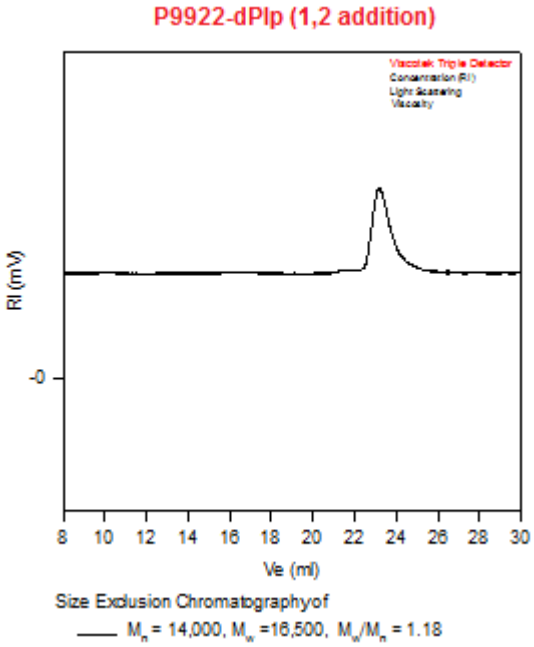
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple 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:



Deuterium NMR of Monomer: