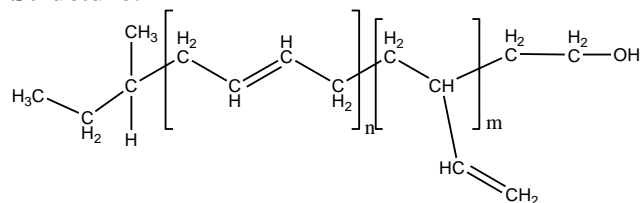


Sample Name: Hydroxy Terminated Polybutadiene,
1,2 addition microstructures

Sample #: P40494-BdOH

Structure:



Composition:

Mn x 10 ³	1.8
PDI	1.09

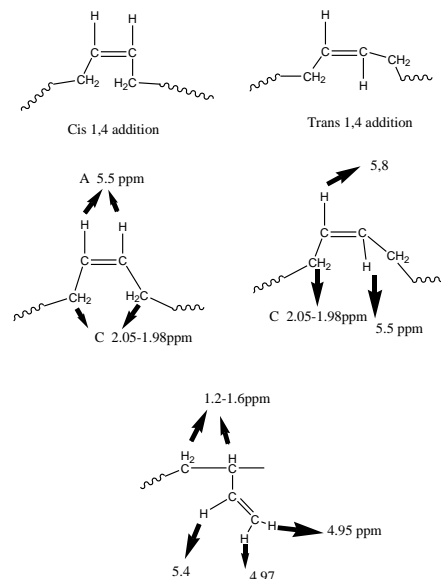
1,2-microstructure	90%
1,4-microstructure	10%

Synthesis Procedure:

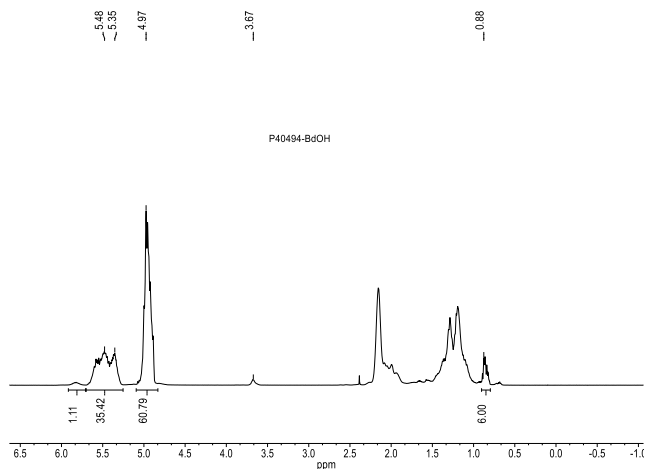
Hydroxy terminated polybutadiene was prepared by anionic living polymerization of butadiene in non-polar solvent followed by termination with ethylene oxide.

Characterization:

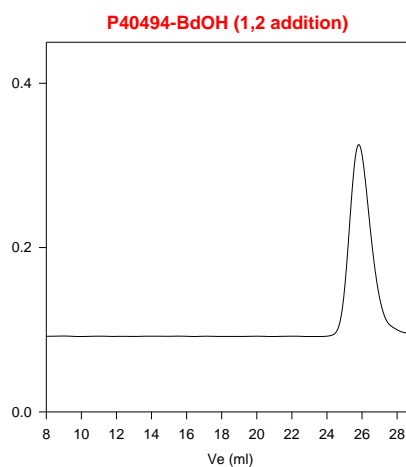
The product was characterized by size exclusion chromatography (SEC) and ¹HNMR.



¹HNMR spectrum of the Sample:



SEC elugram of the Sample:



Size exclusion chromatography of poly(butadiene):
— 1,2 rich polybutadiene M_n=1,800, M_w=1,900, PI=1.09

Solubility:

Polymer is soluble in DMF, THF, toluene, hexane, cyclohexane and CHCl₃.