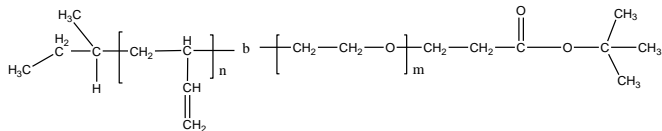


Sample Name: Ter.butyl propionate terminated
Poly(butadiene-b-ethylene oxide)
Poly butadiene rich in 1,2 microstructure

Sample #: P41252A-BdEOCOOtBu

Structure:



Composition:

Mn x 10 ³ Bd-b-EO	Mw/Mn (PDI)	% 1,2 addition Butadiene
1.9-b-0.9	1.09	95%
Dp: of each block: 35-b-20		

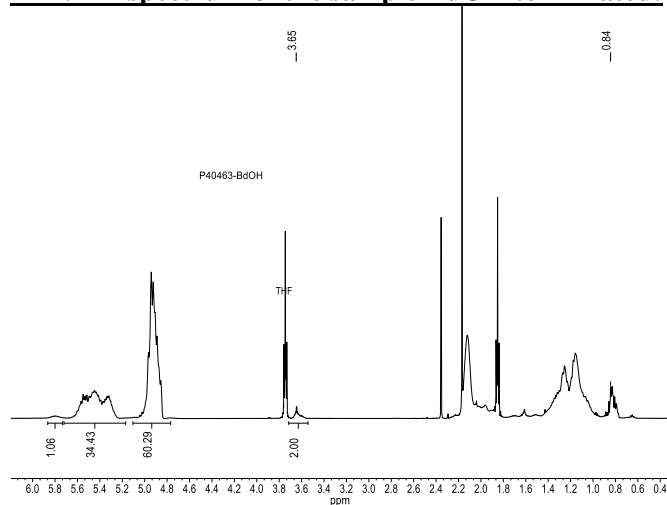
Synthesis Procedure:

Ter.butyl propionate terminated Poly(butadiene-b-ethylene oxide) is prepared by anionic polymerization process.

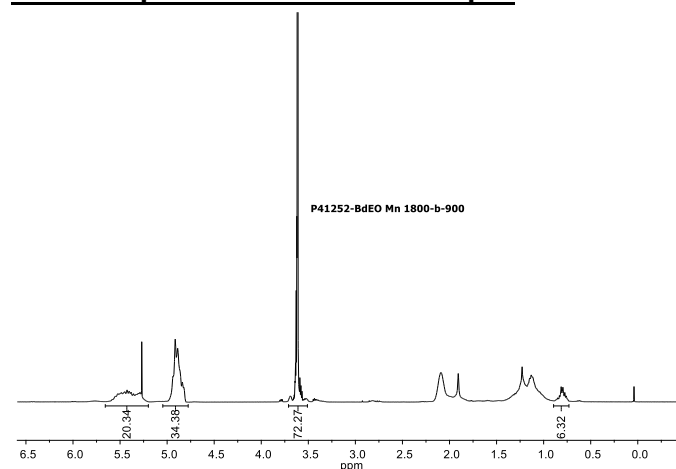
Characterization:

The polymer was characterized by size exclusion chromatography (SEC) and ¹H NMR.

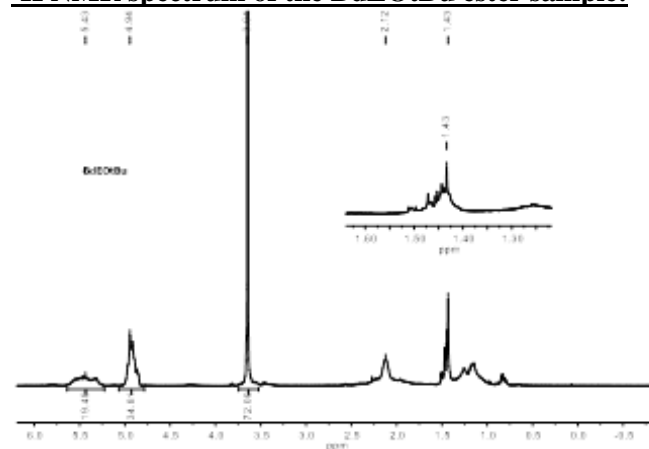
¹H NMR spectrum of the sample BdOH terminated:



¹H NMR spectrum of the BdEO sample:

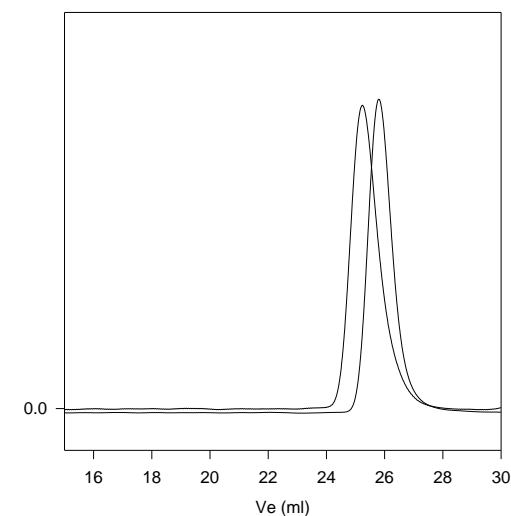


¹H NMR spectrum of the BdEOtBu ester sample:



SEC profile of BdEO used:

P41252-BdEO



Size exclusion chromatography of poly(butadiene-b-ethylene oxide):

- OH terminated 1,2 polybutadiene M_n=1900, M_w=2000, PI=1.09
- Block Copolymer PBd(1900)-b-PEO(900), PI=1.09
 (Chemical composition From ¹H NMR)