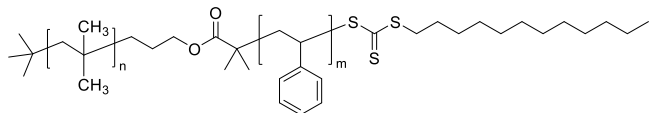


**Sample Name: Poly(isobutylene)-b-poly(styrene)**

**Sample #: P42370-IBS**

**Structure:**

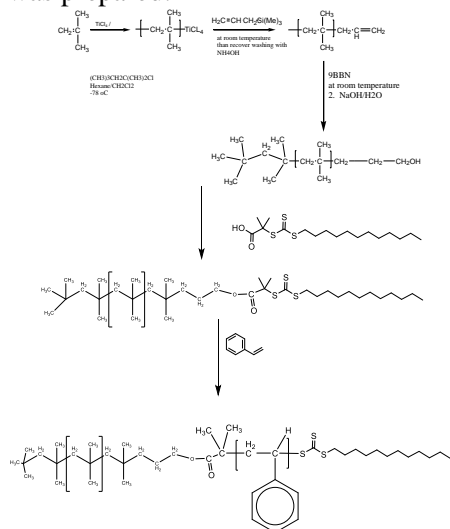


**Composition:**

Mn $\times 10^3$ Ib-b-S	Mw/Mn (PDI)
8.5-b-44.0	1.13

**Synthesis Procedure:**

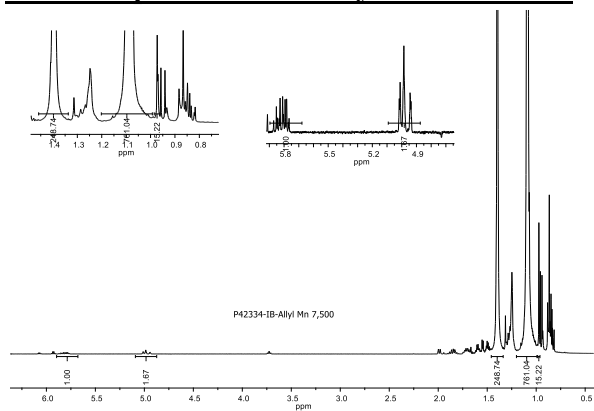
The following reaction scheme shows how the product was prepared:



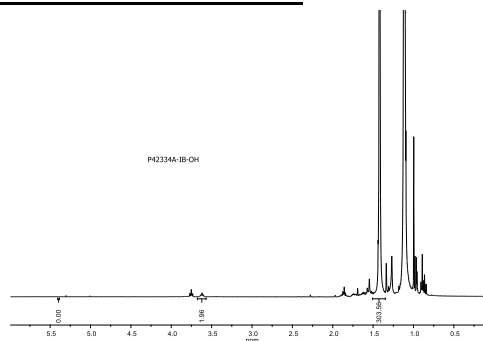
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and  $^1\text{H}$  NMR.

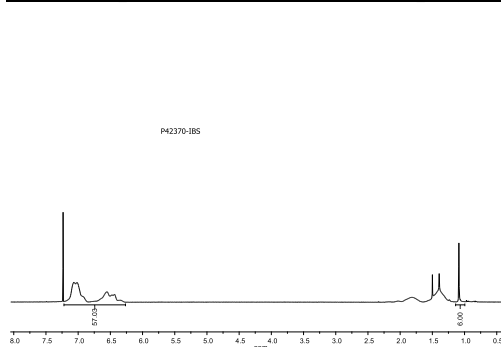
**$^1\text{H}$  NMR spectrum of the allyl terminated IB:**



**$^1\text{H}$  NMR spectrum of the Sample used to convert IB-RAFT macroinitiator:**



**$^1\text{H}$  NMR spectrum of the Block copolymer:**

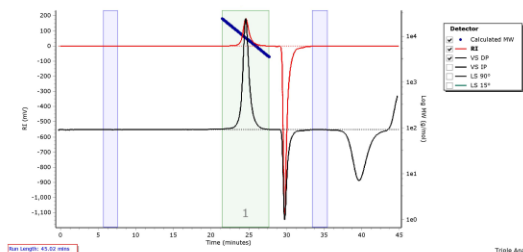


**SEC elugram of the allyl terminated PIB Used to prepare RAFT macromonomer:**

Agilent GPC/SEC Software

P42370-IB-RAFT

Chromatogram Plot



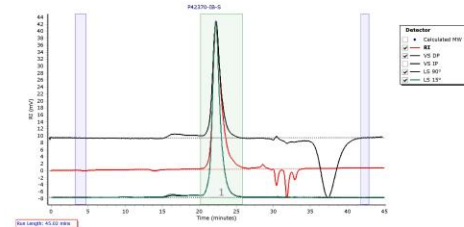
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	9252	8729	9251	9339	9604	9269	1.035

**SEC elugram of the Sample:**

Agilent GPC/SEC Software

P42370-IB-S

Chromatogram Plot



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	9252	8729	9251	9339	9604	9269	1.132