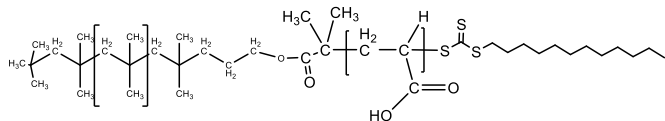


Sample Name: Poly(isobutylene-b-Acrylic acid)

Sample #: P42368-IbAA

Structure:

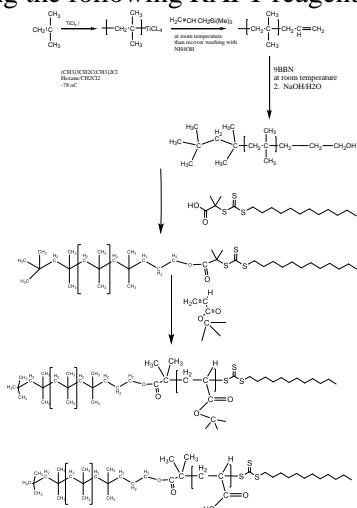


Composition:

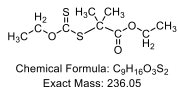
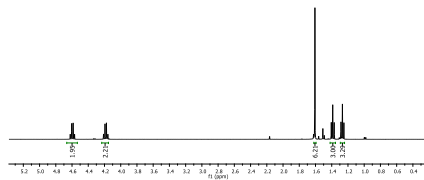
Mn $\times 10^3$ Ib-b-AA	Mw/Mn (PDI)
6.5-b-15.0	1.18

Synthesis Procedure:

The polymer is prepared by RAFT polymerization process using the following RAFT reagent:



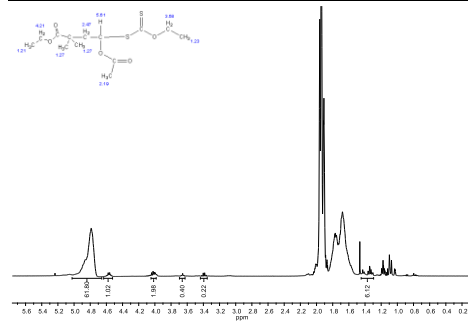
^1H NMR of RAFT (400 MHz, CDCl_3):



Characterization:

The molecular weight and polydispersity index (PDI) of the polymer are obtained by size exclusion chromatography (SEC) in THF as eluent.

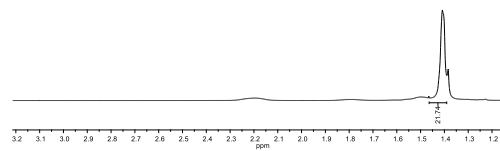
^1H NMR of Polymer (500 MHz, CdCl_3):



^1H NMR spectrum of IBtBuA Sample:



P42368-ib-tBuA Mn 6500-b-42000

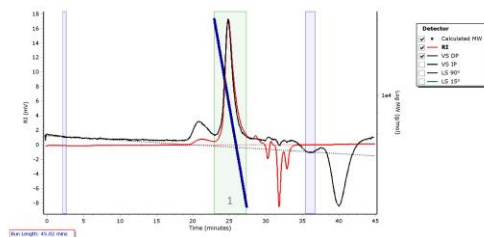


SEC elugram of the RAFT macroinitiator:

Agilent GPC/SEC Software

P423667-VAC_RAFT

Chromatogram Plot



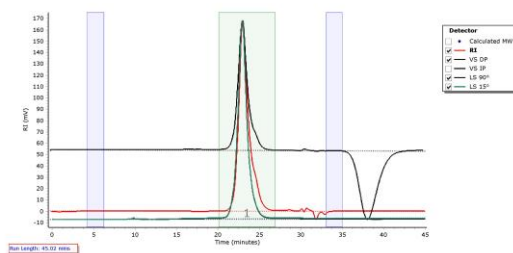
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	9270	6551	8486	10575	13067	9949	1.295

SEC elugram of the IBtBuA Sample:

Agilent GPC/SEC Software

P42368-IB-tBUA

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	41038	32344	38372	43619	46582	42831	1.186

After Hydrolysis of tert butyl ester to Acid
Mn 6,500-b-15,000