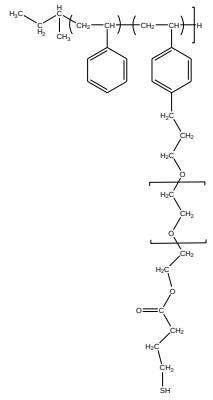
Sample Name: **Poly(styrene)-graft-poly (ethylene oxide), PEO is thiol-terminated**

Sample #: **P41761-SEOSHcomb**

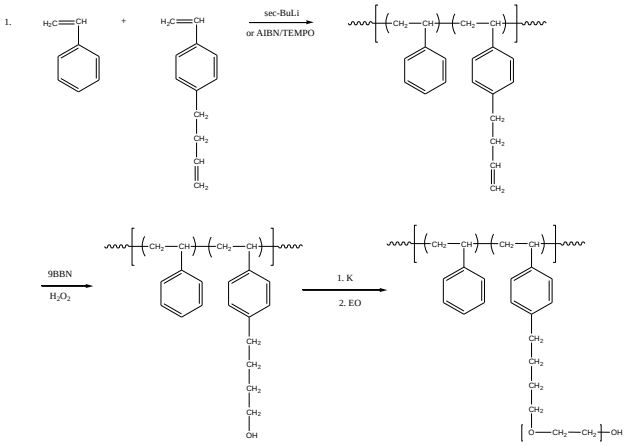
Structure:



Composition:

Mn x 10^3 (Main Chain)	Mn x 10^3 (Graft Chain)	Mn x 10^3 (Total Chain)	Mw/Mn (Total)
6.0	5.0	55.0	1.02
PEO: 10 branches			

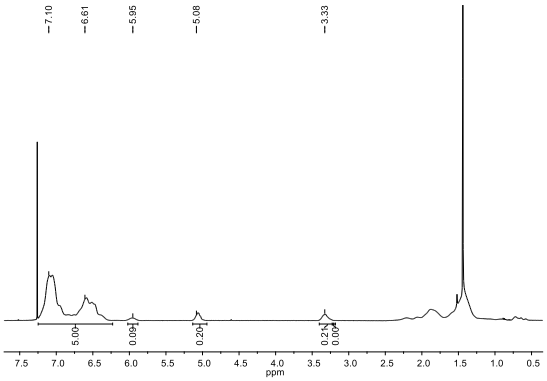
Synthesis Procedure:
The following reaction scheme shows briefly how the product was prepared:



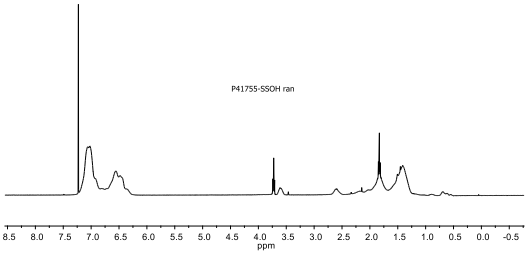
COOH converted to thiol

Characterization:
The product was characterized by size exclusion chromatography (SEC) and ^{1}H NMR.

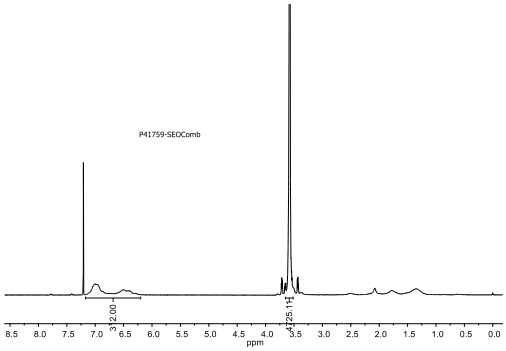
NMR spectrum of SSButene random:



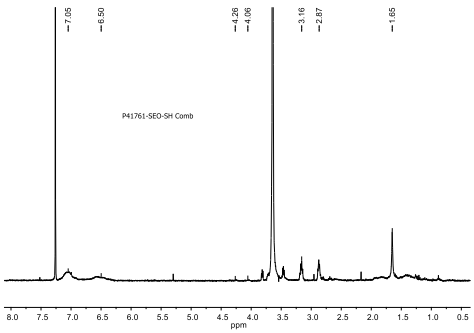
NMR spectrum of SSButanol:



NMR spectrum of SSEO graft:



NMR spectrum of the Sample:

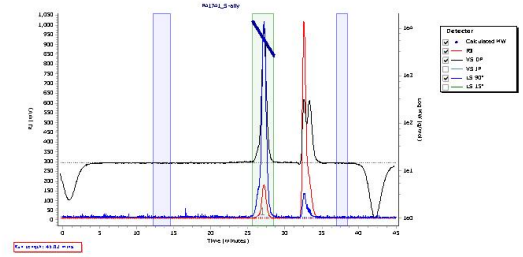


SEC elugram of SSallyl ran Lot P41741:

Agilent GPC/SEC Software

P41741_S-ally

Chromatogram Plot



Molecular Weight Averages

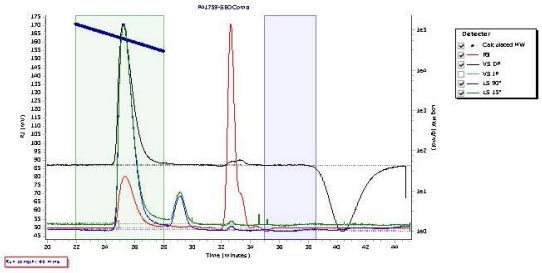
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	5876	5777	6026	6304	6628	6198	1.043

SEC elugram of the Sample:

Agilent GPC/SEC Software

P41761-SEO-SH comb

Chromatogram Plot



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	59629	54709	56141	57523	59018	57570	1.026