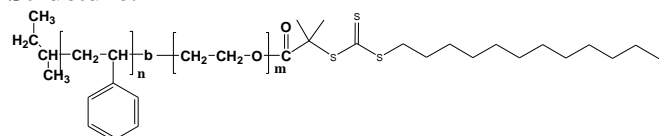


Sample Name: RAFT end functionalized Poly (styrene-b-ethylene oxide)

Sample #: P41524A-SEO-RAFT

Structure:



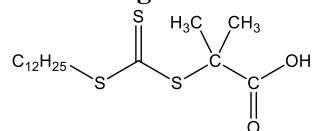
Composition:

Mn x 10 ³ S-b-EO	12.5-b-6.5
PDI	1.01
RAFT functionality by HNMR	> 98 %

Synthesis:

SEO (OH) end group esterifies with RAFT reagent.

RAFT reagent Structure:



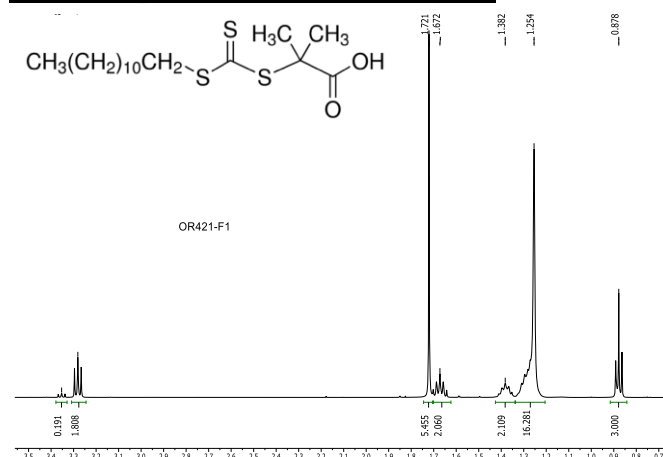
Chemical Formula: C₁₇H₃₂O₂S₃
Molecular Weight: 364.6

M.p.:	57–63°C
Storage temperature:	2–8°C
Purity:	> 95 %

RAFT reagent Characterization:

The chemical structure of the product was confirmed by ¹H NMR.

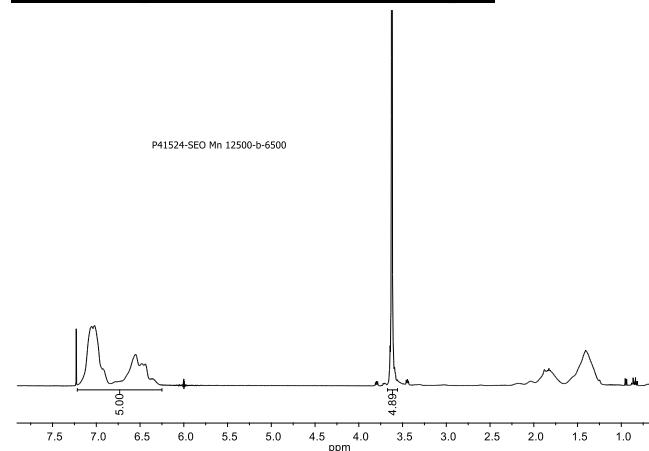
¹H NMR spectrum of the Raft reagent:



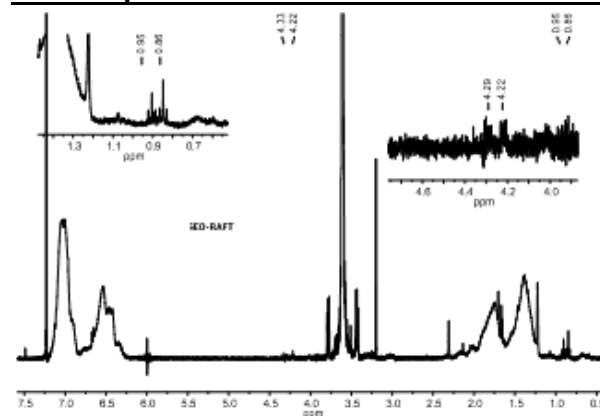
Characterization:

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

¹H NMR spectrum of the SEO sample:

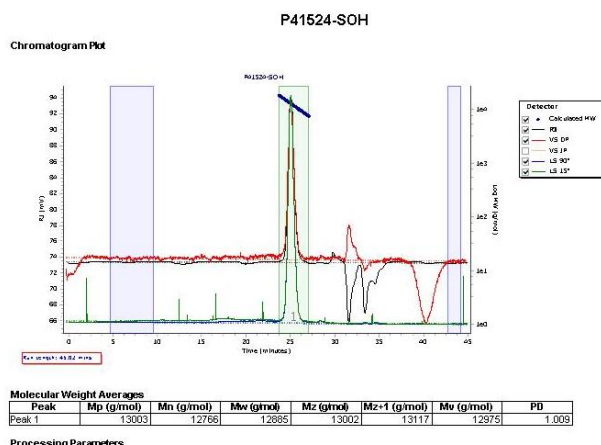


HNMR spectrum of SEO-terminated with RAFT:



SEC profile of the SOH Sample:

Agilent GPC/SEC Software

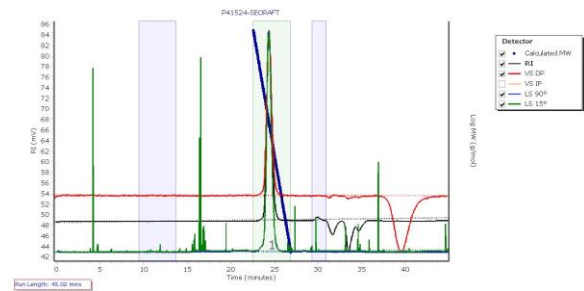


SEC profile of the Sample:

Agilent GPC/SEC Software

P41524-SEORAF7

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		19595	19343	19415	19486	19555	19471

Processing Parameters
Method Last modified by Polymer Source at 11:41:16 AM on October-24-18
Concentration Detector Used in RI
Analysis
Injection volume (uL) 100.00
Flow rate (mL/min) 1.00
Concentration options Calculate Sample Concentration from Entered Sample Properties
Entered divdc (mL/g) 0.148
Entered Ext Coeff ((mg/mL)^-1)cm^-1 1.000
Calculated RI concentration (mg/mL) 1.705