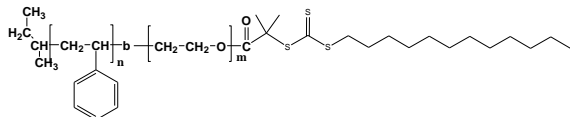


Sample Name: Poly(styrene)-b-poly(ethylene oxide), ω -RAFT-terminated diblock copolymer

Sample #: P43236-SEO-RAFT

Structure:



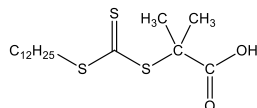
Composition:

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:



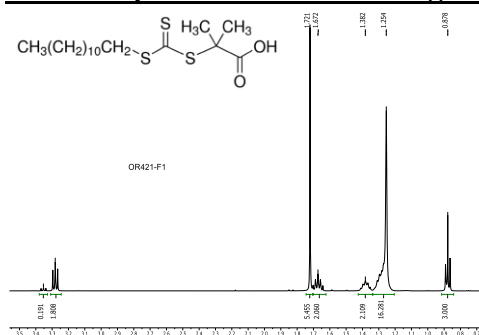
Chemical Formula: $C_{17}H_{32}O_2S_3$
Molecular Weight: 364.6

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.

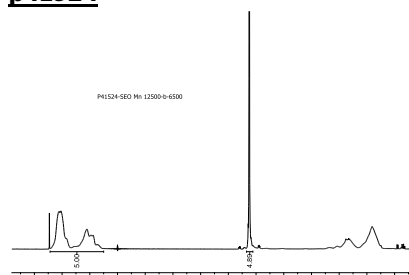
¹H NMR spectrum of the Raft reagent:



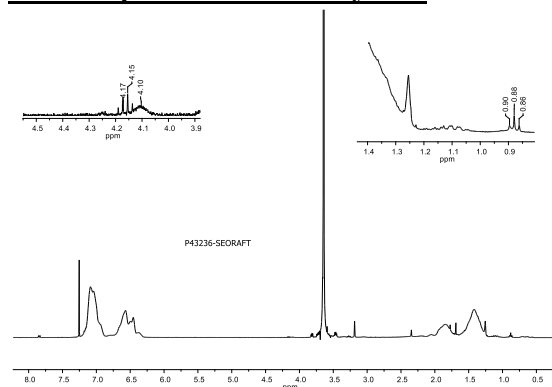
Characterization:

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

¹H NMR spectrum of the used SEO sample:Lot# p41524

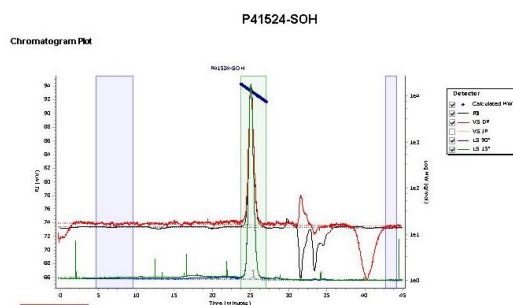


HNMR spectrum of the Polymer:



SEC profile of the SOH Sample:

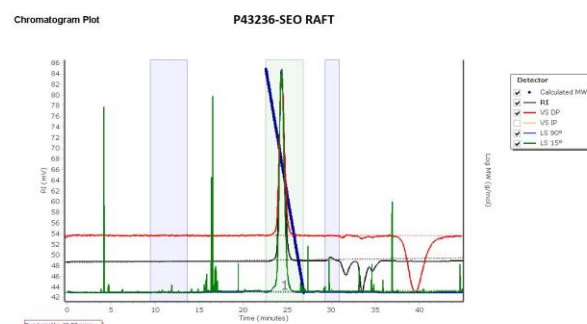
Agilent GPC/SEC Software



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	13003	12766	12885	13002	13117	12975	1.00

Processing Parameters

SEC profile of the Sample:



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	1.00