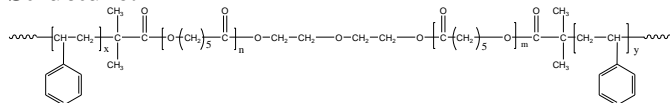


Sample Name: Poly(styrene -b- ε-caprolactone -b- styrene)

Sample #: P41784-SCLS

Structure:

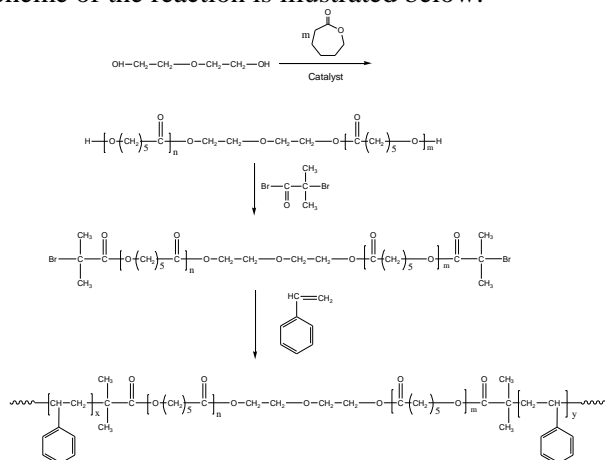


Composition:

| | |
|---------------------------------------|------|
| Mn x 10 ³ PS-b-PCL-b-PS | PDI |
| 2.5-b-8.0-b-2.5 | 1.02 |

Synthesis Procedure:

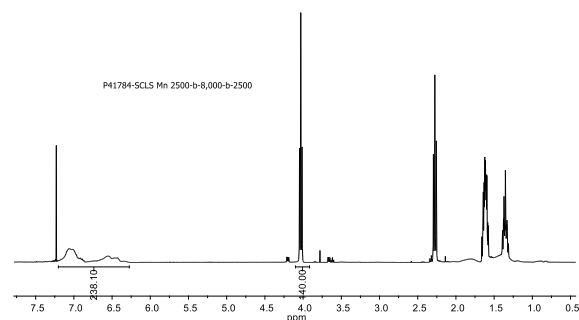
Poly(styrene -b- ε-caprolactone -b- styrene) is prepared by ring opening polymerization of ε-caprolactone and ATRP polymerization of styrene. The scheme of the reaction is illustrated below:



Characterization:

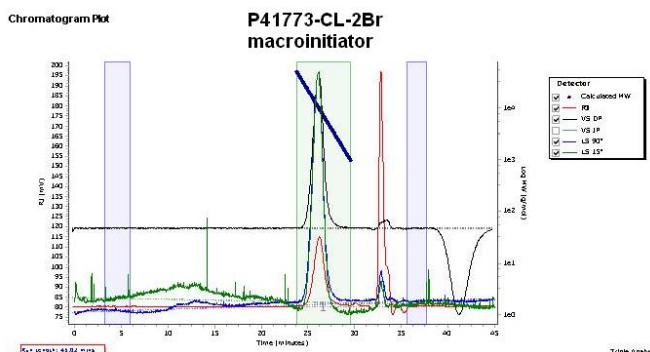
The product was characterized by size exclusion chromatography (SEC) and ¹H NMR.

¹H-NMR Spectrum of the copolymer:



SEC elugram of the Macroinitiator:

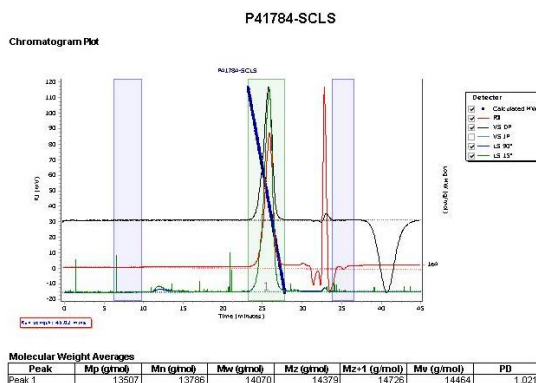
Agilent GPC/SEC Software



| Peak | Mp (g/mol) | Mn (g/mol) | Mw (g/mol) | Mz (g/mol) | Mz+1 (g/mol) | Mv (g/mol) | PD |
|--------|------------|------------|------------|------------|--------------|------------|-------|
| Peak 1 | 9674 | 8082 | 10137 | 11983 | 14006 | 11265 | 1.254 |

SEC elugram of the Sample:

Agilent GPC/SEC Software



| Peak | Mp (g/mol) | Mn (g/mol) | Mw (g/mol) | Mz (g/mol) | Mz+1 (g/mol) | Mv (g/mol) | PD |
|--------|------------|------------|------------|------------|--------------|------------|-------|
| Peak 1 | 1507 | 13786 | 14070 | 14379 | 14726 | 14464 | 1.021 |

Composition from HNMR