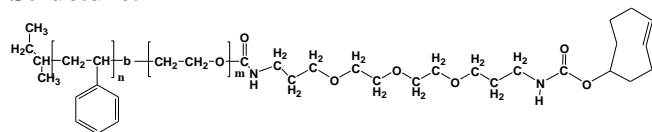


Sample Name: Trans-Cyclooctene PEG₃ end functionalized Poly(styrene-b-ethylene oxide)

Sample #: P40889A-SEO-TCO

Structure:



Composition:

Mn x 10 ³ S-b-EO	9.5-b-18.0
PDI	1.09
functionality by HNMR	> 98 %

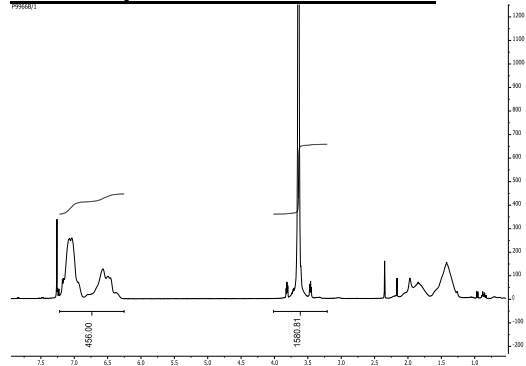
Synthesis Procedure:

The polymer was prepared by modification of terminal COOH to react with trans-cyclooctene-PEG₃-NH₂ moiety.

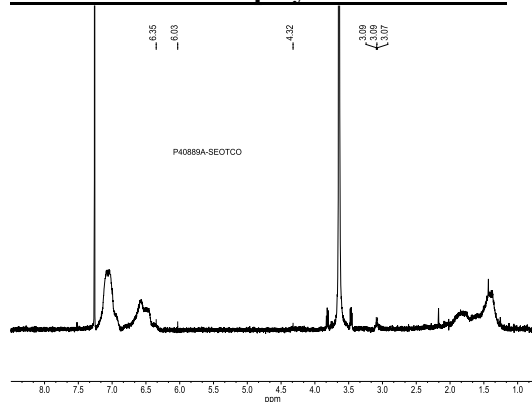
Characterization:

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

HNMR spectrum of diblock SEO:

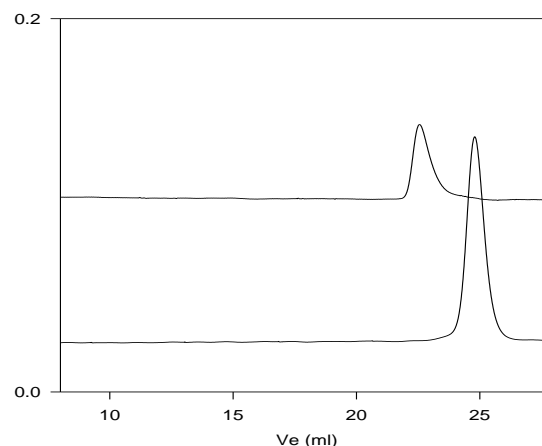


HNMR of the final polymer SEO-TCO:



SEC elugram of diblock polymer:

SEO Diblock Polymer

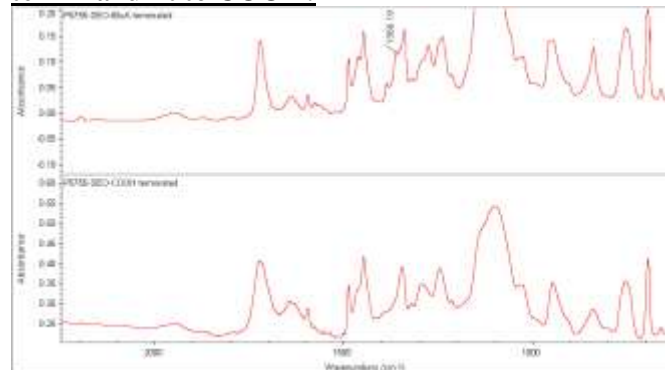


Size Exclusion Chromatography:

—— Polystyrene, M_n=9,500, M_w=9,900, PI=1.05

—— Block Copolymer Polystyrene-b-Poly(ethylene oxide)
Mw: PS(9,500)-b-PEO(18,000), PI=1.09

FTIR spectra of functionalized Ps-EO-tBuA terminated and after hydrolysis of tert BuA terminal unit to COOH:



FTIR spectra of the polymer before attaching TCO unit and after attaching TCO unit:

