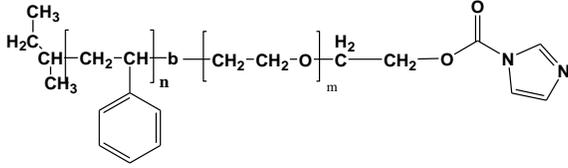


Sample Name:

**Carbonyl imidazole . end functionalized
Poly(styrene-b-ethylene oxide)**

Sample #: P40856-SEO-ID

Structure:



Composition:

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

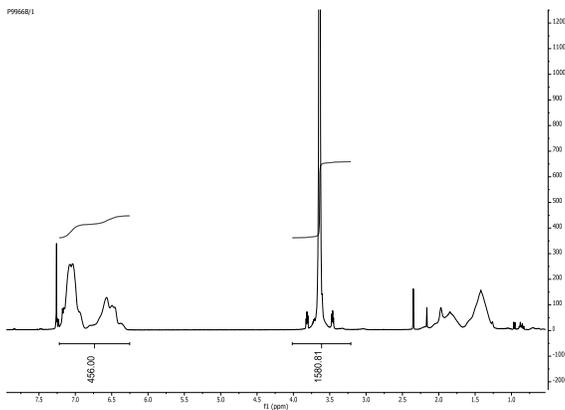
Synthesis Procedure:

Carbonyl imidazole . end functionalized Poly (styrene-b-ethylene oxide) is prepared by modification of terminal COOH to react with trans-cyclooctene-PEG₃-NH₂ moiety.

Characterization:

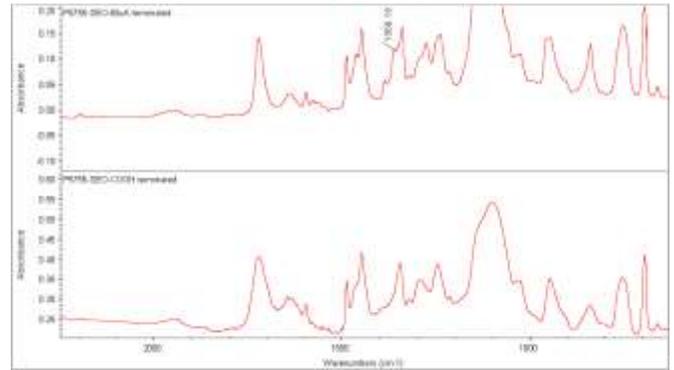
The product was characterized by size exclusion chromatography (SEC) and ¹H NMR.

HNMR spectrum of diblock SEO:

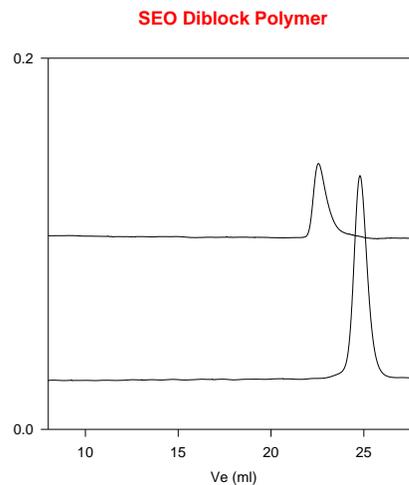


FTIR of functionalized polymer:

Ps-EO-tBuA terminated and after hydrolysis of tert BuA terminal unit to COOH.



SEC of the diblock polymer:



Size Exclusion Chromatography:
— Polystyrene, M_n=9,500, M_w=9,900, PI=1.05
— Block Copolymer Polystyrene-b-Poly(ethylene oxide)
M_w: PS(9,500)-b-PEO(18,000), PI=1.09