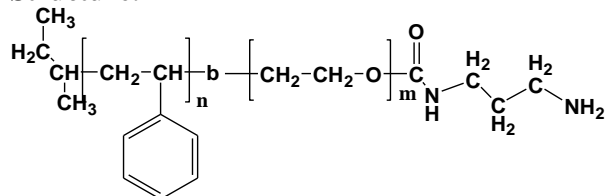


**Sample Name:**  
**Poly(styrene-b-ethylene oxide), ω-amino-terminated**

**Sample #:** P40937-SEO-NH2

**Structure:**



**Composition:**

|                                |            |
|--------------------------------|------------|
| Mn x 10 <sup>3</sup><br>S-b-EO | 9.5-b-18.0 |
| PDI                            | 1.09       |
| functionality by HNMR          | > 98 %     |

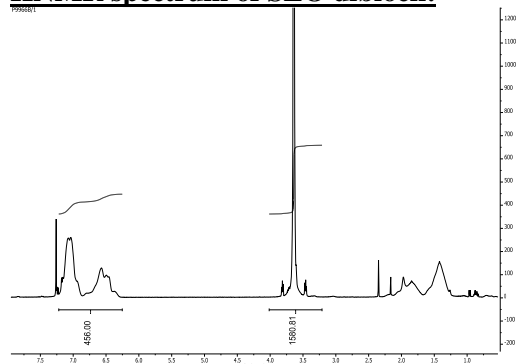
**Synthesis Procedure:**

The diblock copolymer was prepared by sequential addition of monomers. The obtained mono-hydroxy-terminated PS-PEO diblock copolymer was converted to amino end-terminated PS-PEO.

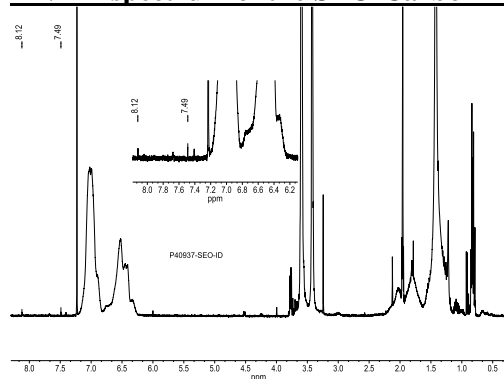
**Characterization:**

The product was characterized by size exclusion chromatography (SEC), <sup>1</sup>H NMR and FTIR.

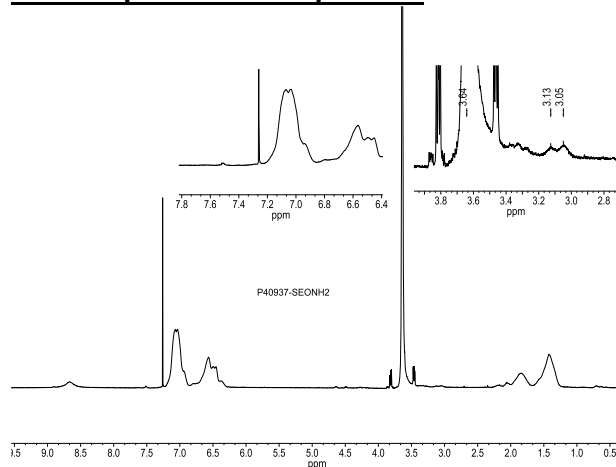
**HNMR spectrum of SEO diblock:**



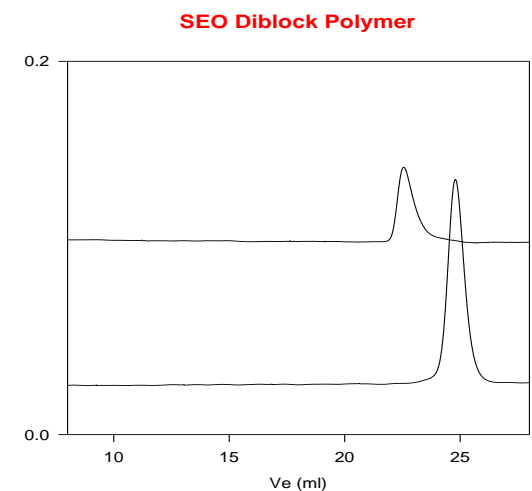
**HNMR spectrum of the SEO-Carboimidazole:**



**HNMR spectrum of the product:**



**SEC of the diblock polymer:**



Size Exclusion Chromatography:  
 — Polystyrene, M<sub>n</sub>=9,500, M<sub>w</sub>=9,900, PI=1.05  
 — Block Copolymer Polystyrene-b-Poly(ethylene oxide)  
 Mw: PS(9,500)-b-PEO(18,000), PI=1.09

**FTIR of functionalized polymer:**

