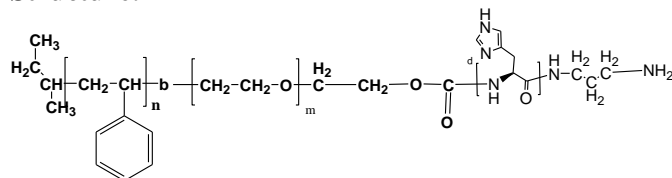


**Sample Name:**  $\omega$ -Amino terminated  
Poly (styrene-b-ethylene oxide-b-Histidine)

**Sample #:** P40867A-S-EO-HisNH2

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup> S-b-EO-His-NH2	9.5-b-18.0-b-3.0
PDI	1.09
functionality by HNMR	> 98 %

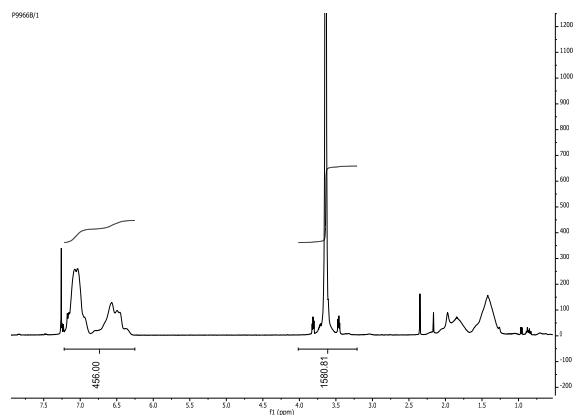
**Synthesis:**

$\omega$ -Amino terminated Poly (styrene-b-ethylene oxide-b-Histidine) is prepared by modification of terminal COOH to react with trans-cyclooctene-PEG<sub>3</sub>-NH<sub>2</sub> moiety.

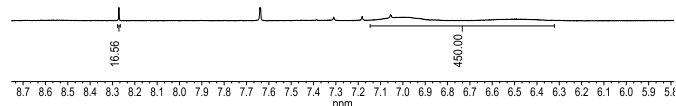
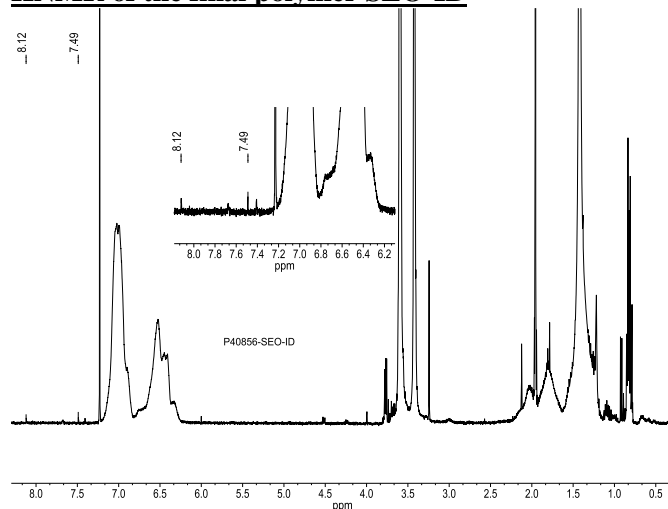
**Characterization:**

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

**<sup>1</sup>H NMR spectrum of diblock SEO:**

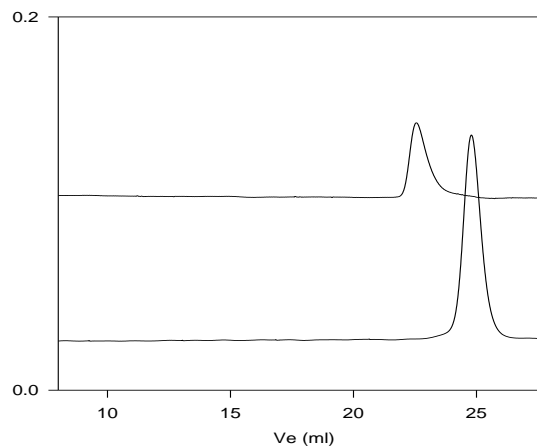


**HNMR of the final polymer SEO-ID**



**SEC of the diblock polymer:**

**SEO 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