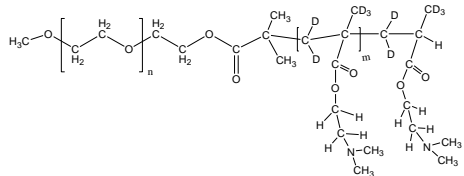


Sample Name:

**Poly (ethylene oxide -b- Deuterated (d5)2-(dimethylamino) ethyl methacrylate)**

Sample #: **P19365A- EOd(5)DMAEMA**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup> PEO-b-Pd5- DMAEMA	PDI
9.0-b-6.5	1.19
Dp: 204-b-42	

**Synthesis Procedure:**

The polymer was synthesized by anionic and control radical polymerization process.

**Characterization:**

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

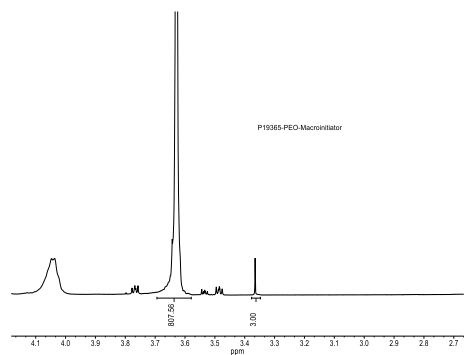
**Purification:**

The polymer purified and any un-reacted homopolyethylene oxide from the diblock copolymer was removed.

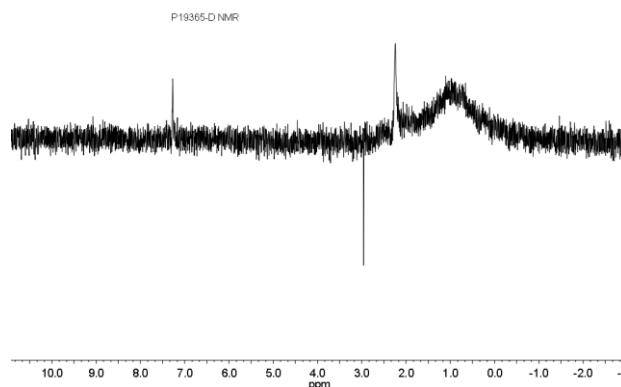
**Solubility:**

The polymer is soluble in water.

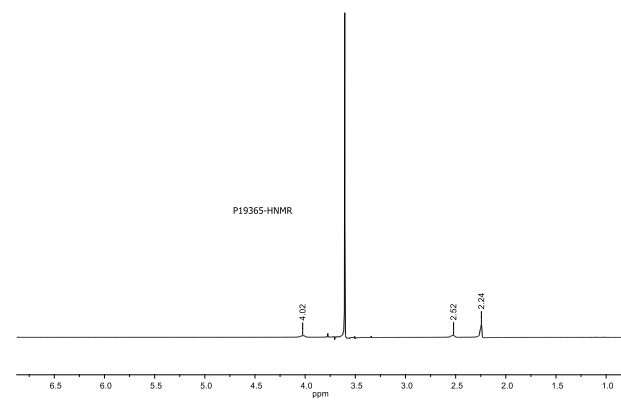
**<sup>1</sup>H-NMR Spectrum of the Macroinitiator:**



**D NMR spectrum of the block copolymer:**



**<sup>1</sup>H-NMR Spectrum of the block copolymer:**



**SEC profile of the polymer:**

