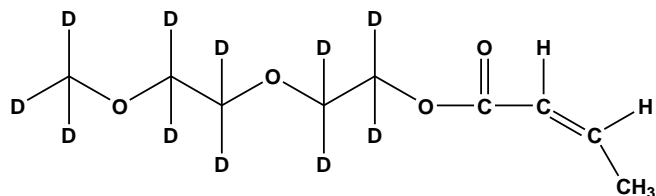


**Sample Name:**  $\omega$ -methacrylate end functionalized  
deuterated Poly (ethylene glycol) methyl ether

**Sample #:** P41234A-dmPEG-methacrylate

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
1.0	1.09
End group Functionality > 90%	

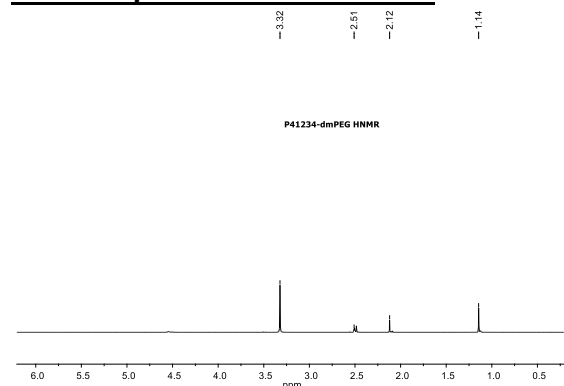
**Synthesis Procedure:**

Polymer is prepared by anionic polymerization process.

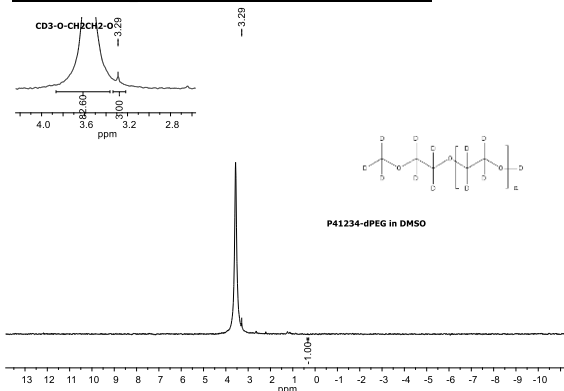
**Characterization:**

The product was characterized by size exclusion chromatography (SEC), elemental analysis and <sup>1</sup>H- DNMR. Potassium analysis was done by GLI Procedure ME-70 Galbraith K<24 ppm.

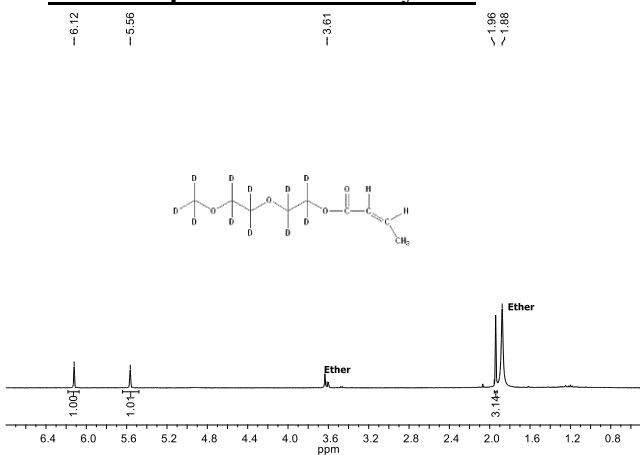
**<sup>1</sup>HNMR spectrum of the dmPEG:**



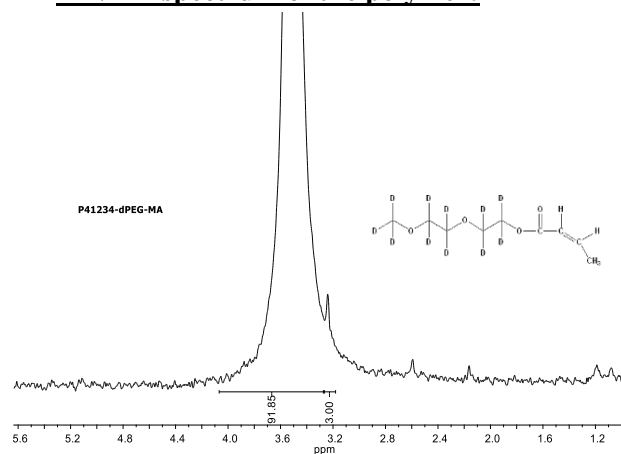
**D NMR spectrum of the dmPEG:**



**<sup>1</sup>HNMR spectrum of the Polymer:**

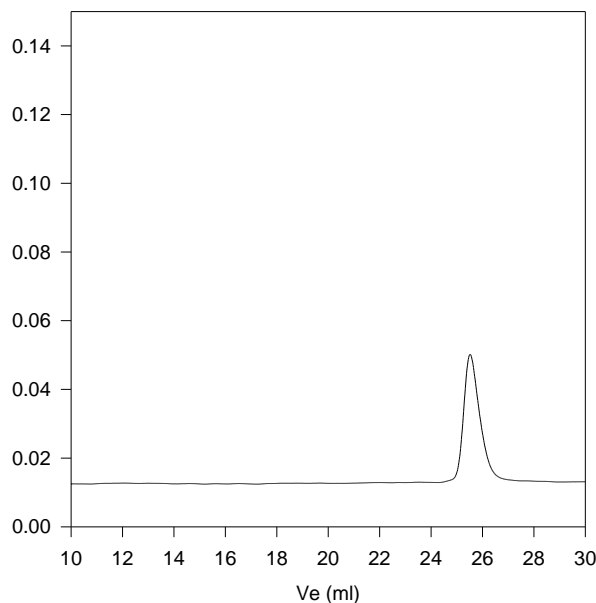


**D NMR spectrum of the polymer:**



**SEC elugram of Sample:**

**P41234-dmPEG**



Size Exclusion Chromatography of polymer:

$$M_n = 1,000, M_w = 1,100, M_w/M_n = 1.09$$