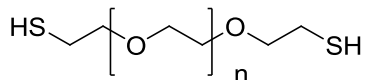


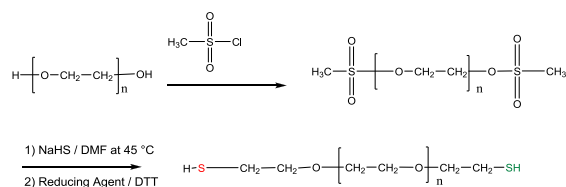
**Sample Name:**

Poly (ethylene glycol) dithiol or  
 $\alpha,\omega$ -dithiol Terminated Poly(ethylene glycol)  
 Sample: P20223B-EG2SH

**Structure:****Composition:**

Mn x 10 <sup>3</sup>	PDI	SH functionality
0.6*	1.15	
		99%

\* - starting material

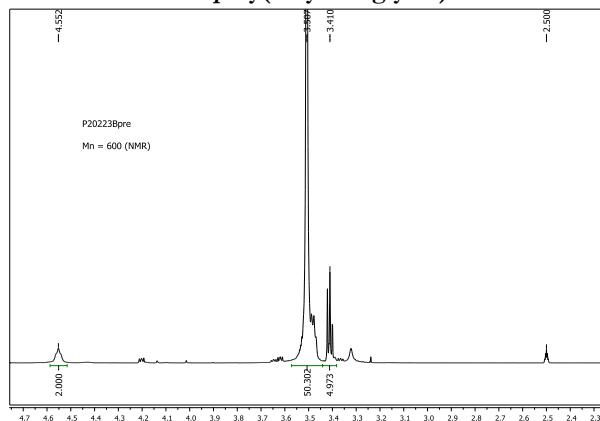
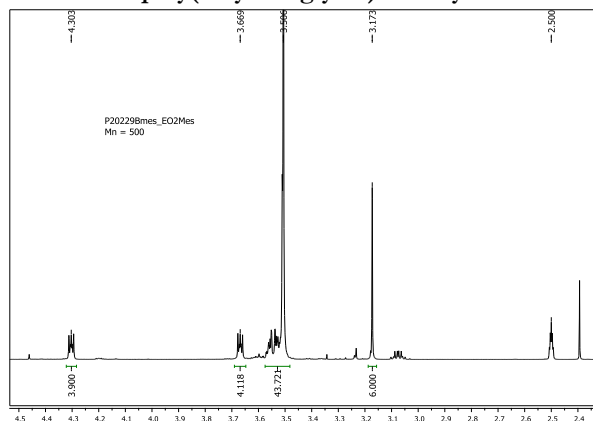
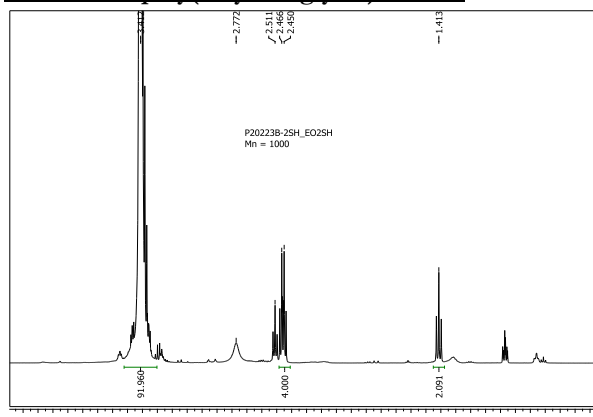
**Synthetic Procedure:****Characterization:**

The molecular weight and polydispersity index were determined by <sup>1</sup>H NMR and size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with UV and refractive index detector.

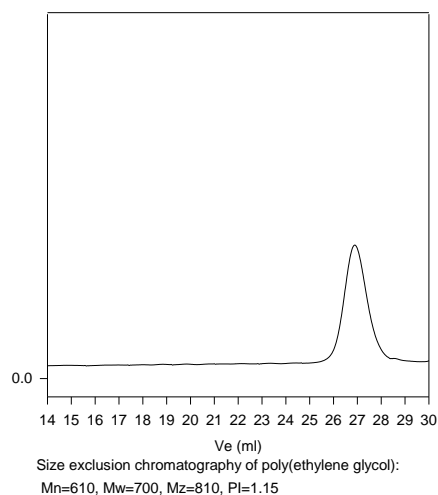
**Functionality:** Functionality of the polymer was determined by <sup>1</sup>H NMR.

**Solubility:**

Polymer is soluble in water, acetone, THF, CHCl<sub>3</sub>.  
 It was precipitated from hexane / ether.

**<sup>1</sup>H NMR of initial poly(ethylene glycol):****<sup>1</sup>H NMR of poly(ethylene glycol) dimesylate:****<sup>1</sup>H NMR of poly(ethylene glycol) dithiol:****SEC of Sample:**

**P20223B-EG2OH**

**References:**

S. K. Varshney, J.X. Zhang, Apply US patent 09/895,323, 2001. Heterofunctional Polyethylene glycol and Poly ethylene oxide, process for their Manufacture.