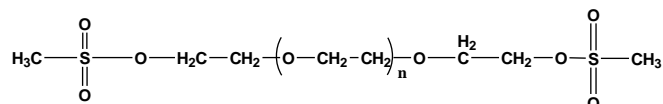


Sample Name: α , ω -bis(Mesylate) end-functionalized Poly (Ethylene Glycol)

Sample #: P16306-EG2Mes

Structure:



Composition:

$M_n \times 10^3$	PDI	Functionality (-SO ₃ CH ₃)
1.4	1.10	~ 88 %

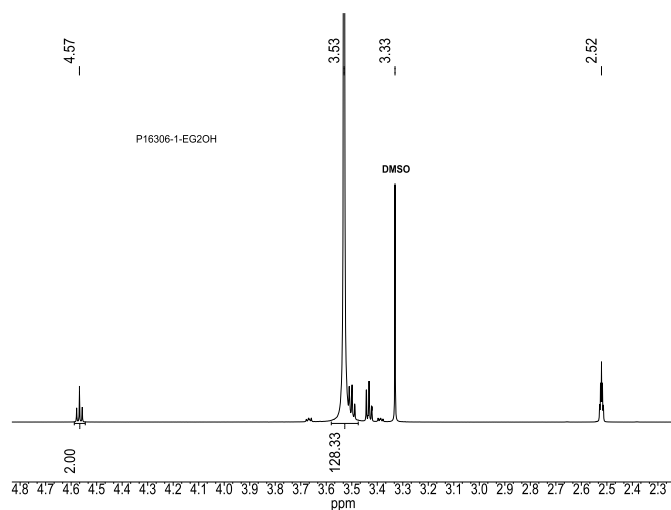
Synthesis Procedure:

The polymer was synthesized by anionic process and functionalized by reacting with methanesulfonyl chloride in THF.

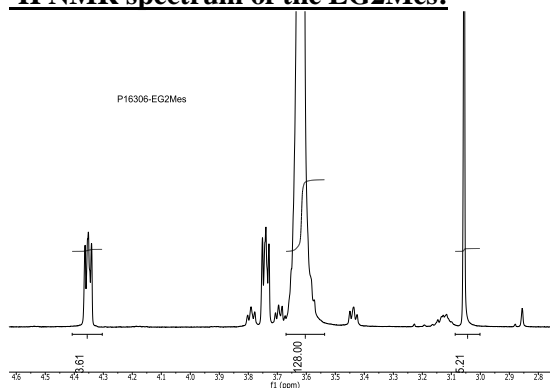
Characterization:

The molecular weight and polydispersity index (PDI) of the product are obtained by size exclusion chromatography (SEC) and ¹H NMR.

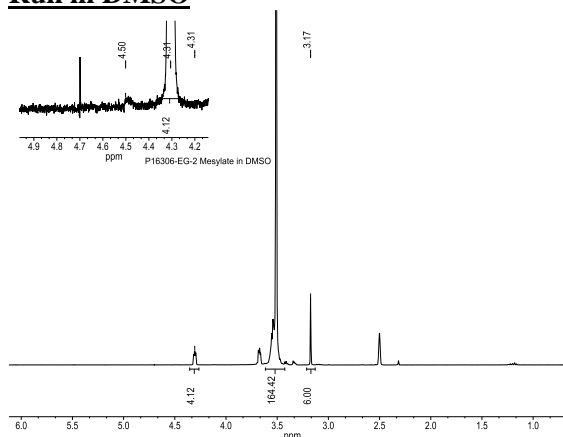
¹H NMR of the polyethylene glycol:



¹H NMR spectrum of the EG2Mes:

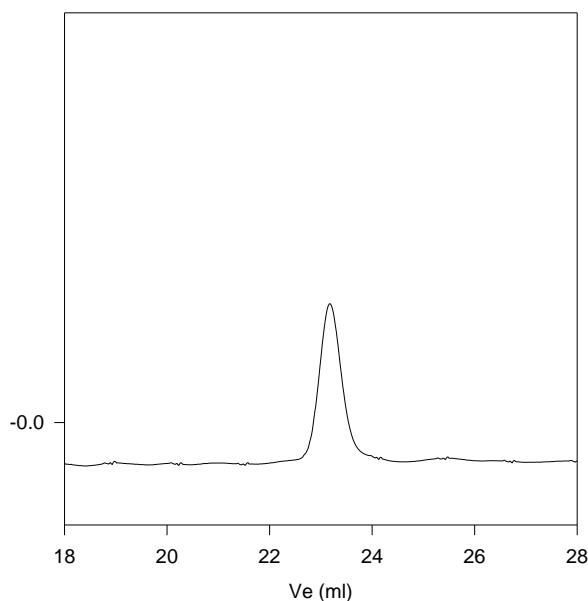


Run in DMSO



SEC of the polymer before terminating with methanesulfonyl chloride:

P16306-1-EG2OH



Size exclusion chromatograph of Poly(ethylene glycol) :
 $M_n=1,400$, $M_w=1,500$, $PI=1.10$