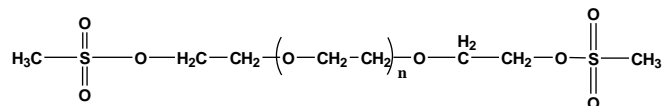


Sample Name: Poly (ethylene glycol), α , ω -bis(mesylate)-terminated

Sample #: P16382-EG2Mes

Structure:



Composition:

| Mn x 10 ³ | PDI | Functionality (-SO ₃ CH ₃) |
|----------------------|------|--|
| 3.4 | 1.04 | > 99% |

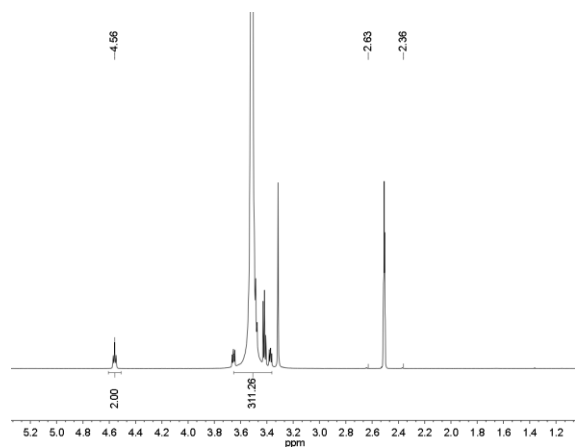
Synthesis Procedure:

The polymer was synthesized by anionic process and post-functionalized by reacting with methanesulfonyl chloride in THF in the presence of triethylamine.

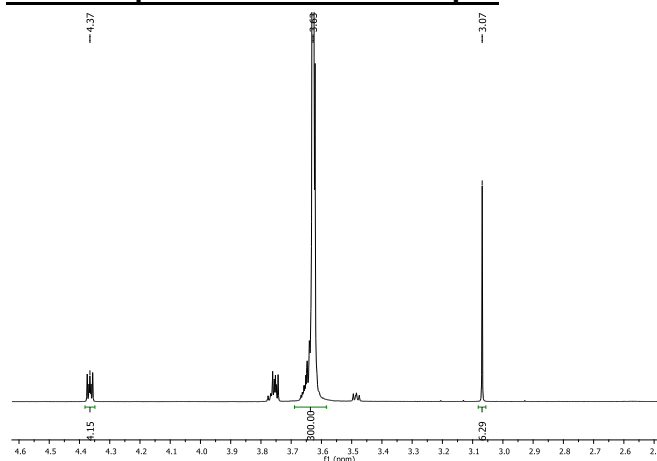
Characterization:

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

¹H NMR spectrum of EG2OH Sample:

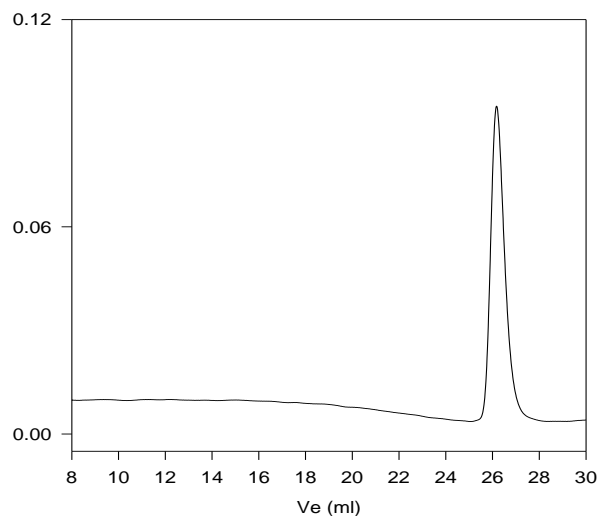


¹H NMR spectrum of EG2Mes Sample:



SEC elugram of EG2OH before converting to EG2Mes:

P19426-EG2OH



Size Exclusion Chromatography of Poly(ethylene glycol):

M_n=3400, M_w=3500, Mw/Mn =1.04