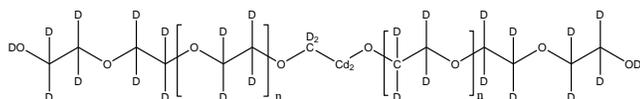


Sample Name: Deuterated Poly(ethylene glycol-d4), α,ω -bis(deuteroxy)-terminated

Sample #: P43216-dPEO2OD

Structure:



Composition:

$M_n \times 10^3$	PDI
13.0	1.24

Synthesis Procedure:

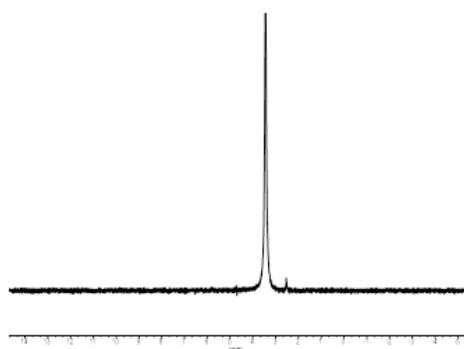
Deuterated Poly (ethylene glycol) dihydroxy terminated is obtained by living anionic polymerization using α - ω -dipotassium alkoxide of ethylene glycol. Polymerization of freshly distilled deuterated ethylene oxide was carried out at room temperature for 24h followed by termination with acidic methanol. The obtained polymer was passed through neutral Al_2O_3 packed column and precipitated in ethyl ether at low temperature. The polymer was dried at room temperature for 24h.

Characterization:

The product was characterized by size exclusion chromatography (SEC), elemental analysis and 1H -DNMR.

Potassium analysis was done by GLI Procedure ME-70 Galbraith $K < 24$ ppm

D NMR spectrum of the polymer:



SEC elugram of the Sample:

