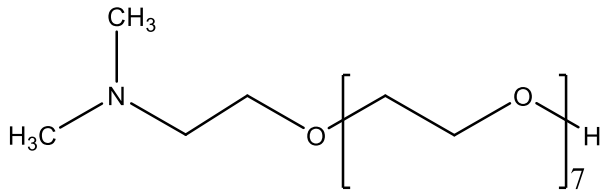
Sample Name:
Poly(ethylene oxide), a-dimethyl amino-terminated

Sample#: **P42996F3-EGN(CH3)2**

Structure:



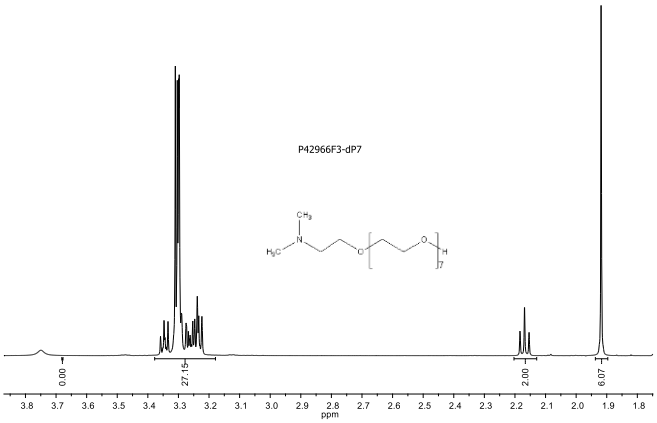
Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n	Dp
0.31	1.04	7

Synthesis Procedure:
Ethylene oxide was polymerized by living anionic polymerization using potassium salt of N,N dimethyl amino ethanol .

Characterization:
Purity and polymer structure was confirmed by ^{1}H NMR analysis done on 500 MHz Bruker spectrometer using $CDCl_3$ and/or DMSO-d_6 solvents.
The average molecular weight and polydispersity index (M_w/M_n) were determined by size exclusion chromatography (SEC) with triple detection, using DMF or THF as an eluent.

^{1}H NMR spectrum of polymer in $CDCl_3$:



Note: End hydroxy group cannot be seen by NMR in chloroform but can be observed in dimethylsulfoxide.

SEC elugram of functionalized PEG: