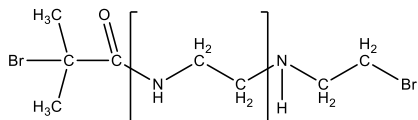


Sample Name: Poly (ethylene imine)

Sample #: P42555A-EI

Structure:

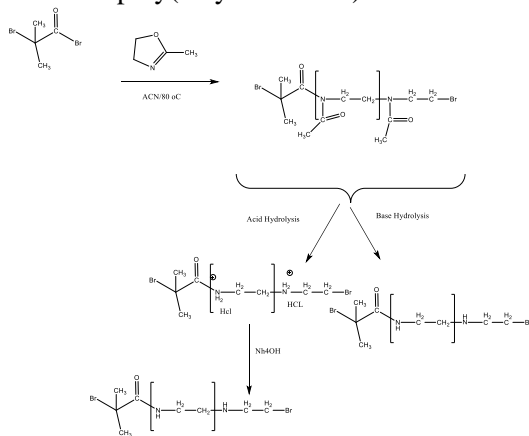


Composition:

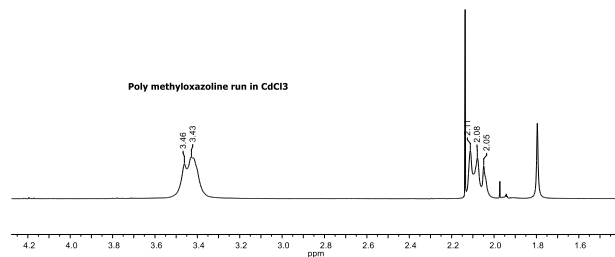
Mn x 10 ³	PDI
5.5	1.10

Synthesis Procedure:

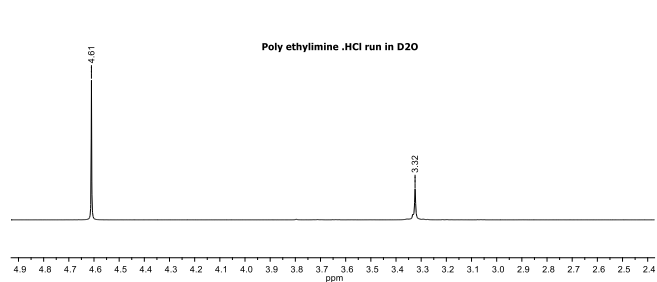
Poly(2-methyl oxazoline) is prepared by cationic process. This was followed by a base hydrolysis to obtain poly(ethylene imine).



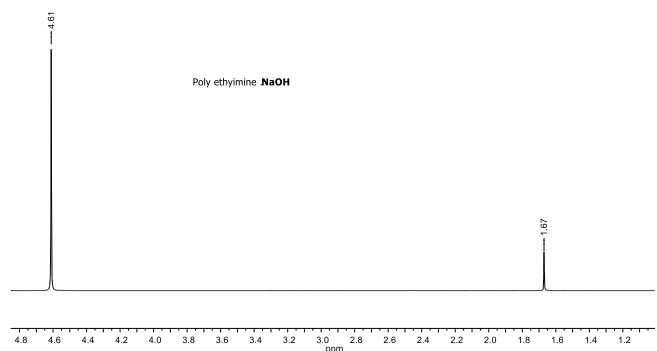
¹H-NMR Spectrum of the poly methyl oxazoline run in CdCl₃:



¹H-NMR Spectrum of the PEI-HCl:



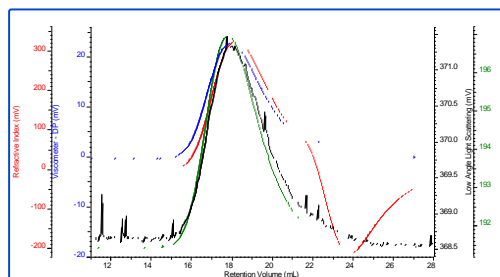
¹H-NMR Spectrum of the PEI-NaOH



SEC profile of the poly methyl oxazoline run in DMF:

P42555-A

dn/dc	0.0789
Flow Rate	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA60K-Jan3-2019-0011.vcm



Sample	Mn	Mw	Mp	Mw/Mn
P42555-A_1_2020-07-	11,116	12,323	12,347	1.109

**After Hydrolysis by base:
Poly ethyleneimine Mn: 5,500**