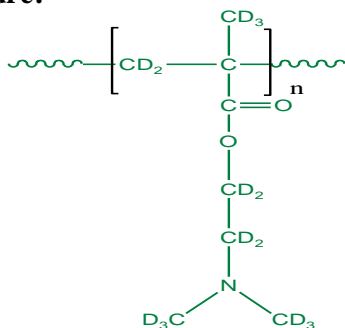


Sample Name:  
**Deuterated Poly(N-N'-  
dimethylaminoethylmethacrylate)**

Sample #: **P42666-d15NNDMEMA**

**Structure:**

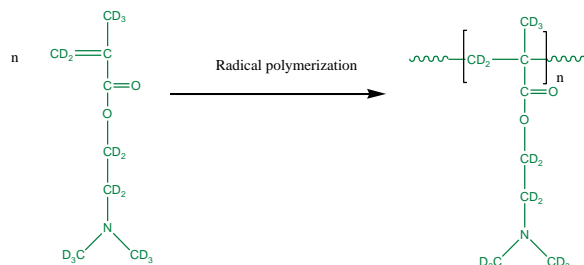


**Composition:**

Mn x 10 <sup>3</sup>	PDI
16.5	2.2

**Synthesis Procedure:**

Polymer is obtained by radical polymerization of deuterated (d15) NN-dimethyl aminoethylmethacrylate.



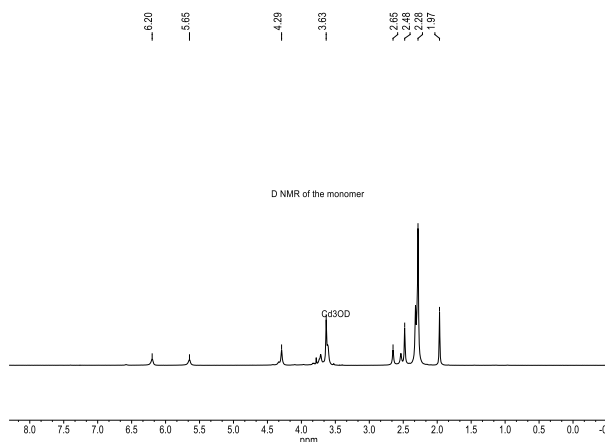
**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

**Solubility:**

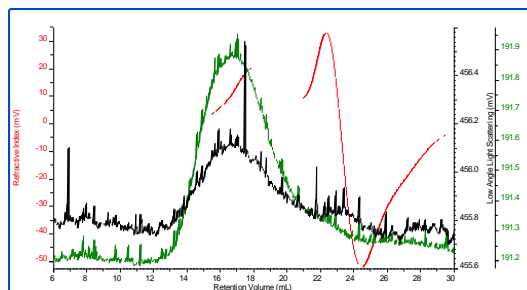
Polymer is soluble in DMF, water, methanol. This polymer precipitates from hexane.

**D-NMR spectrum of the monomer:**



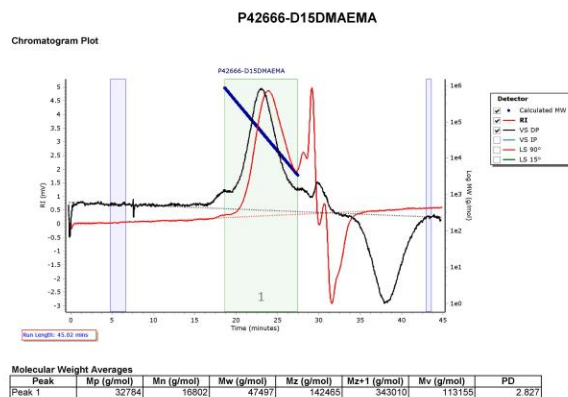
**SEC elugram of the Sample:**

P42666-D15NNDMAEMA	
dn/dc	0.0570
Flow Rate	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA60K-Jan3-2019-0016.vcm



Sample	Mn	Mw	Mp	Mw/Mn
P42666-D15DMAEMA_1_2	16,593	36,865	24,096	2.222

**SEC elugram of the Sample (carried out in THF):**



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	32784	16802	47497	142465	343010	113155	2.827