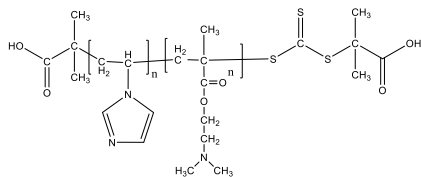


Sample Name:

Poly(N-vinyl imidazole)-b-poly(N,N-dimethylaminoethyl methacrylate)

Sample#: P43704-VIMDZDMAEMA

Structure:

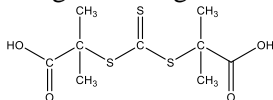


Composition:

$M_n \times 10^3$ VIMDZ-b-DMAEMA	PDI
113.0-b-122.0	3.2

Synthesis Procedure:

Polymer is obtained by RAFT polymerization process using following RAFT.



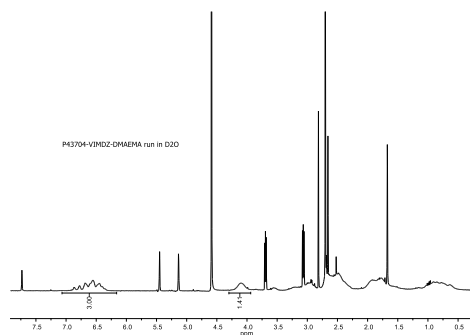
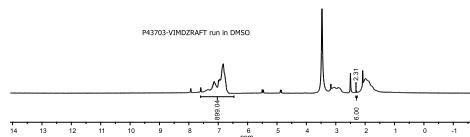
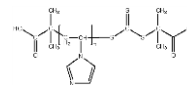
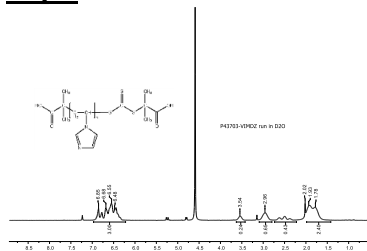
Characterization:

The molecular weight and polydispersity index (PDI) of polymer is obtained by size exclusion chromatography in aqueous system (water as eluent with 0.1% trifluoroacetic acid and 0.2M NaCl). The columns were calibrated with poly ethylene glycol.

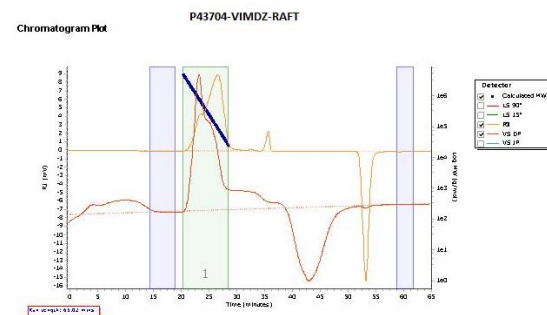
Solubility:

Polymer is soluble in water. It precipitated out from hexane, and ether.

HNMR spectrum of the Sample in different steps:



SEC elugram of the VIMDZ-Raft:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz-1 (g/mol)	Ms (g/mol)	PDI
Peak 1	89563	112527	318955	885841	1483688	711573	2.842

Dispersion Data

FTIR spectrum of the Sample:

