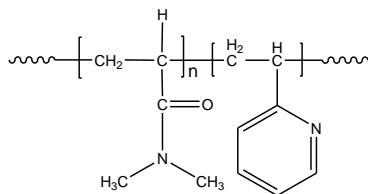


Sample Name: Poly(N-N-dimethylacrylamide-b-2-Vinylpyridine)

Sample #: P41444-DMA2VP

Structure:



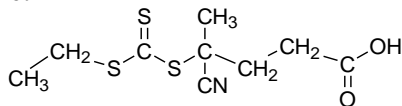
Composition:

Mn x 10 ³ DMA-2VP	PDI
10.5-b-23.0	1.14

Synthesis Procedure:

The polymer is prepared by RAFT polymerization process.

Structure:



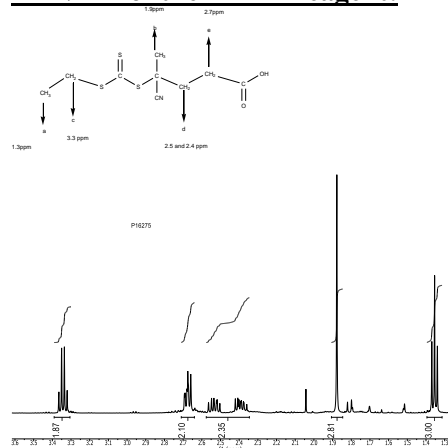
Composition:

Formula	C ₉ H ₁₃ NO ₂ S ₃
Mw	263.40
Purity	> 90%

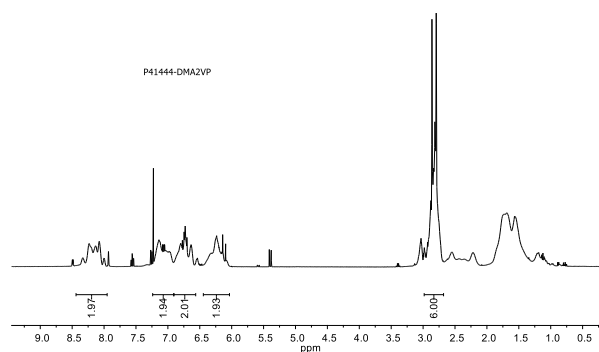
Characterization:

The molecular weight and polydispersity index (PDI) of the polymer are obtained by size exclusion chromatography in DMF at 50 °C using triple detectors

¹H NMR of the RAFT reagent:



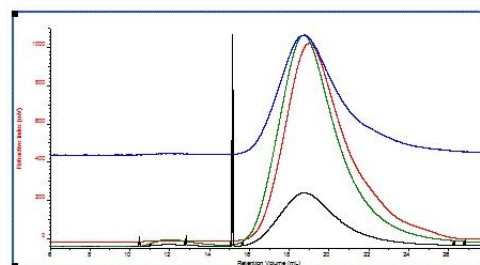
HNMR spectrum of Block copolymer:



SEC elugram of the DMA block:

P41432-DMA

dn/dc	0.0870
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA64K-Oct2018-0006.vcm

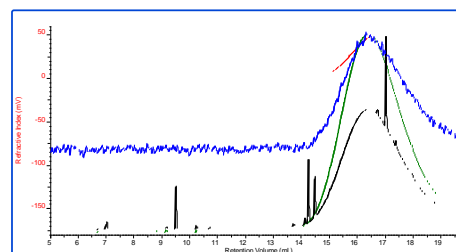


Sample	Mn	Mw	Mz	IV	Mw/Mn
P41432 1 2018-10-30	10,428	11,083	12,043	0.1036	1.063

SEC elugram of Block Copolymer:

P41444-DMA2VP

dn/dc	0.1000
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA64K-Oct2018-0006.vcm



Sample	Mn	Mw	Mz	IV	Mw/Mn
P41444-DMA2VP_1_201	33,573	38,503	46,996	0.1290	1.147