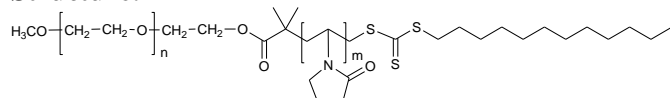


Sample Name:
Poly(ethylene glycol -b- N-vinylpyrrolidone)

Sample #: P16085-EGNVP

Structure:

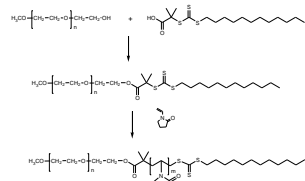


Composition:

Mn x 10 ³ PEG-b-NVP	PDI
2.4-b-25.0	1.3

Synthesis Procedure:

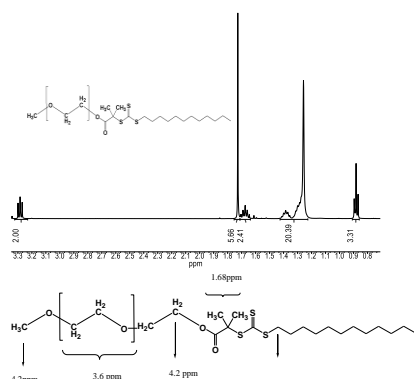
The diblock copolymer was prepared by RAFT process:



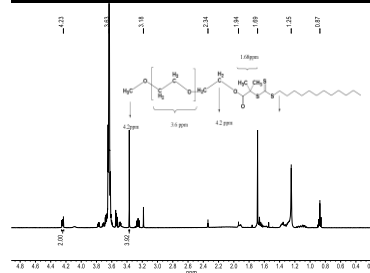
Characterization: The molecular weight and polydispersity of copolymer were characterized by SEC and ¹H NMR.

Solubility: Poly(ethylene glycol -b- N-vinylpyrrolidone) is soluble in water.

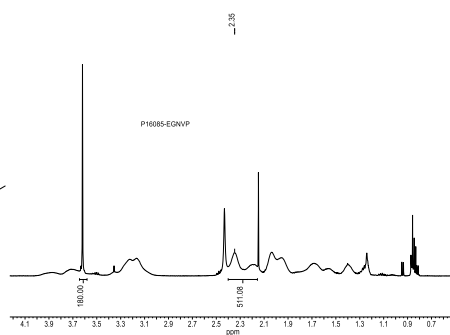
¹H NMR spectrum of the RAFT reagent:



¹H NMR spectrum of the PEG-macroRAFT:

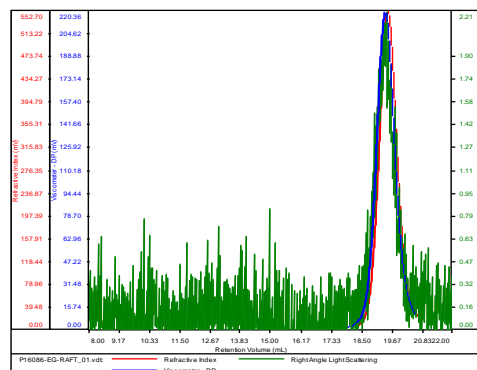


¹H NMR Spectrum of the block copolymer:



SEC elugram of the EG-RAFT:

Conc (mg/mL)	32.2602
dn/dc (mL/g)	0.0390
Method	PS80K-August-08-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS

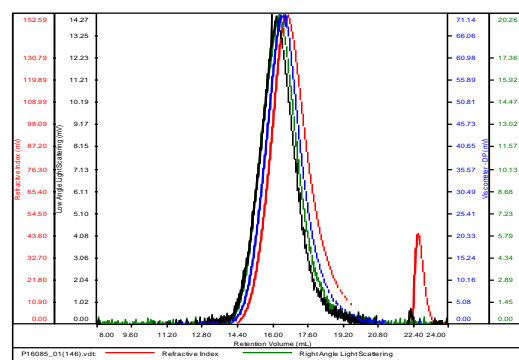


Sample	Mn	Mw	Mp	Mw/Mn	IV
P16085-EG-RAFT_01.vdt	2,446	2,624	2,163	1.073	0.0674

SEC elugram of the block-copolymer:

P16085-EGNVP

Conc (mg/mL)	9.0698
dn/dc (mL/g)	0.0930
Method	PS80K-August-08-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P16085_01(146).vdt	27,404	36,844	33,538	1.344	0.1746