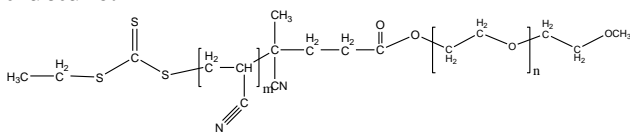


Sample Name: Poly (ethylene oxide–b–acrylonitrile)

Sample #: P41458-EOACN

Structure:



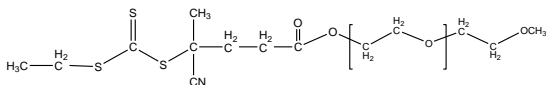
Composition:

Mn x 10 ³ PEO-b-PACN	PDI
30.0-b-2.5	1.04
Color of the polymer	orange

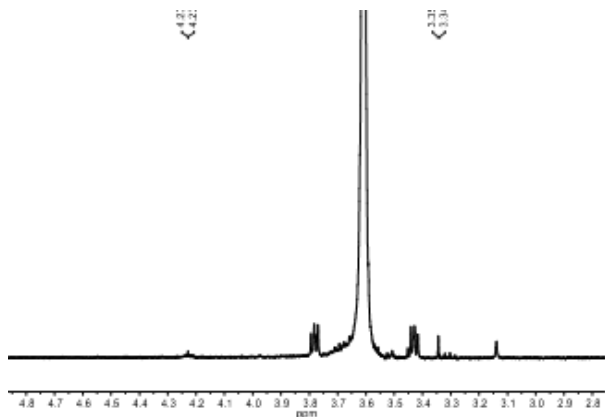
Synthesis Procedure:

The polymer was prepared by RAFT polymerization process.

mPEG-RAFT macroinitiator structure:



¹H NMR spectrum of the PEG-RAFT (lot#P41461):



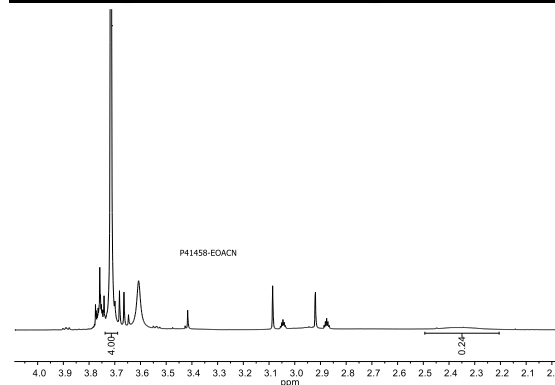
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H NMR.

Solubility:

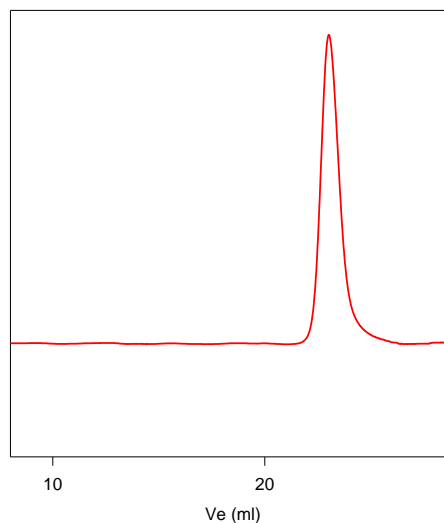
The polymer is soluble in DMF.

HNMR spectrum of block copolymer run in DMF:



SEC profile of RAFT macroinitiator (lot P41461):

P41461-EGOCH3-RAFT



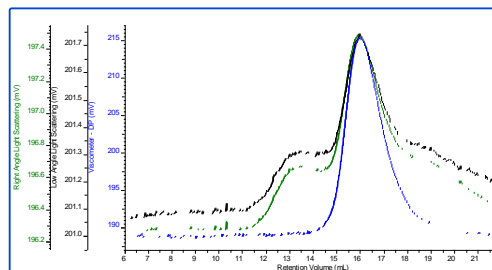
Size exclusion chromatography of the product:

— Poly(ethylene glycol methylether) : M_n=30,000, M_w=31,000, M_w/M_n=1.10

SEC profile of the Sample:

P41458-EOACN

dn/dc	0.0450
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS



Sample	Mn	Mw	Mz	IV	Mw/Mn
P41458-EOACN_1_21	32,400	33,523	35,463	0.3037	1.035