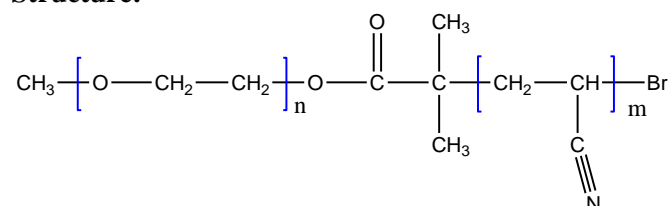


**Sample Name:** Poly (ethylene oxide–b–acrylonitrile)

**Sample #:** P41483-EOACN

**Structure:**



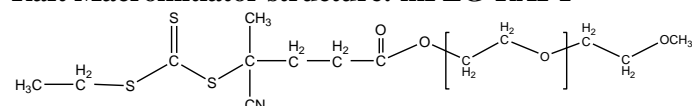
**Composition:**

Mn x 10 <sup>3</sup> PEO-b-PACN	PDI
15.0-b-43.0	1.3

**Synthesis procedure:**

The polymer was synthesized by RAFT polymerization process.

**Raft Macroinitiator structure: mPEG-RAFT**



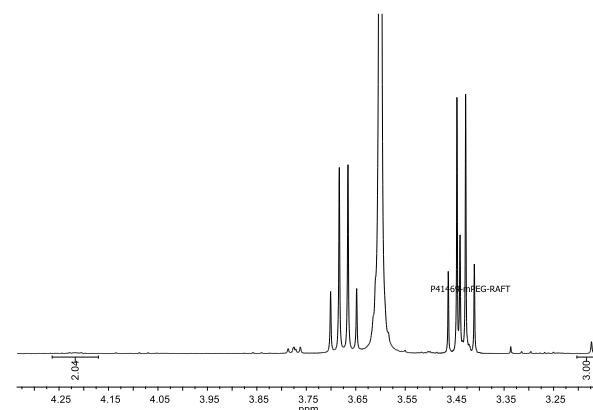
**Characterization:**

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

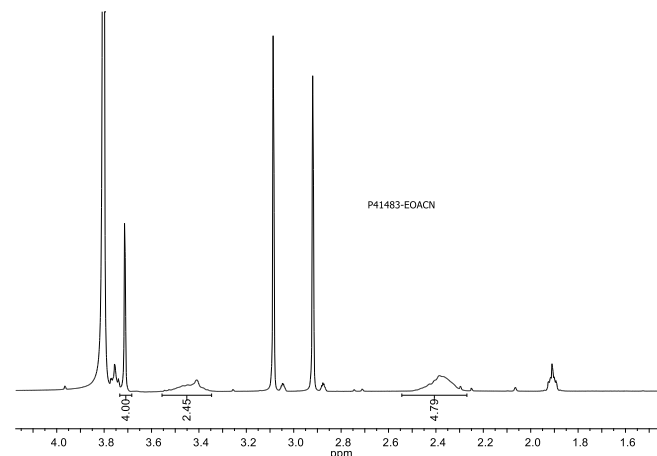
**Solubility:**

The polymer is soluble in DMF.

**<sup>1</sup>H NMR spectrum of the PEG-RAFT**



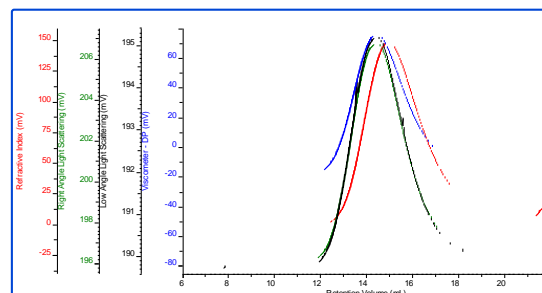
**<sup>1</sup>H NMR spectrum of block copolymer run in DMF:**



**SEC elugram of the Sample:**

**P41483- EOACN**

dn/dc	0.0580
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA64K-Oct2018-0008.vcm



Sample	Mn	Mw	Mz	IV	Mw/Mn
P41483_1_2018-11-16	51,749	69,782	109,829	0.5820	1.348