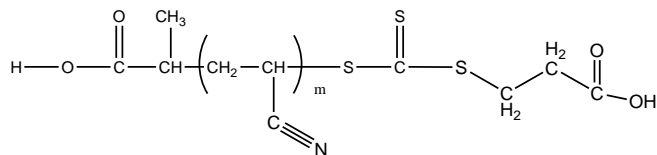


Sample Name:

RAFT end terminated Poly (Acrylonitrile)

Sample #: **P41208A-ACN-RAFT**

Structure:



Composition:

$M_n \times 10^3$ ACN	Mw/Mn (PDI)
19.5	1.4

Color of the Product: ivory in color

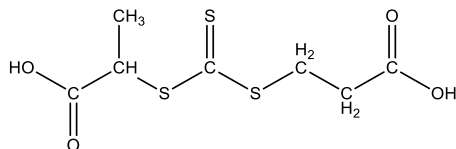
Synthesis Procedure:

The polymer is prepared by RAFT polymerization process.

PACN-RAFT macroinitiator prepared in ethylene carbonate as solvent.

Following RAFT catalyst used:

Structure:



Chemical Formula: $C_7H_{10}O_4S_3$

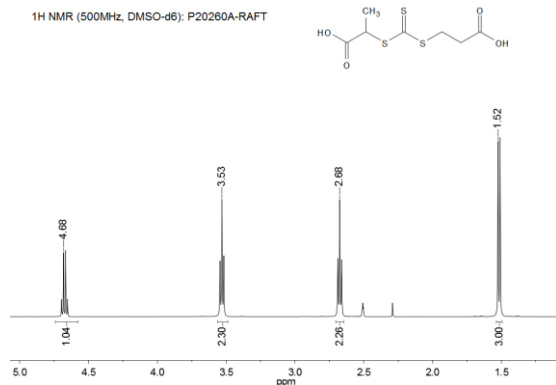
Molecular Weight: 254.3

Purity:	> 95 %
Storage temperature:	2–8°C

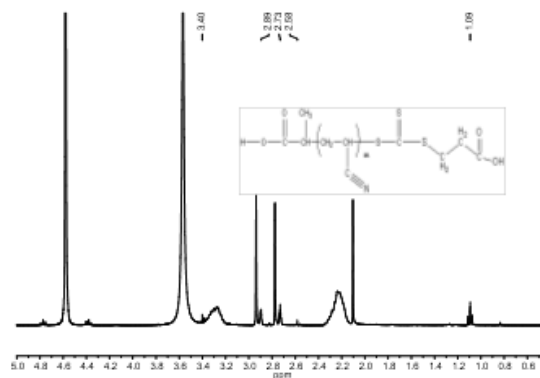
Characterization:

The chemical structure of the product was confirmed by FT-IR and 1H NMR.

1H NMR (500 MHz, DMSO- d_6):



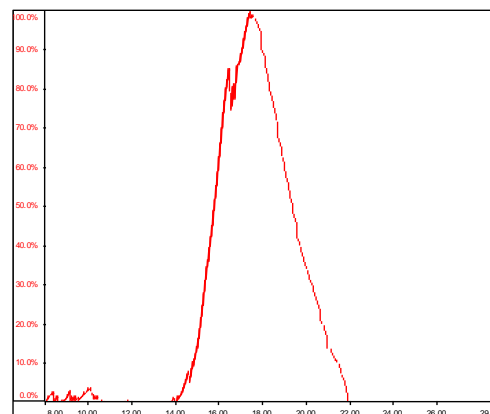
1H NMR spectrum of the PACN-RAFT Macroinitiator in DMF:



SEC elugram of the PACN-RAFT in DMF:

P41208-ACN-RAFT

Conc	2.4993
dn/dc	0.0840
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P41208-ACN-RAFT_01.vdt	19,634	28,109	18,692	1.432	0.8388