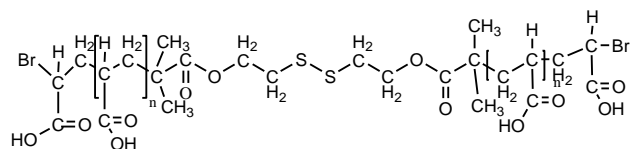


Sample Name:  
**Poly(Acrylic acid) with disulfide linkage**

Sample #: **P41199A-AA2SS**

**Structure:**

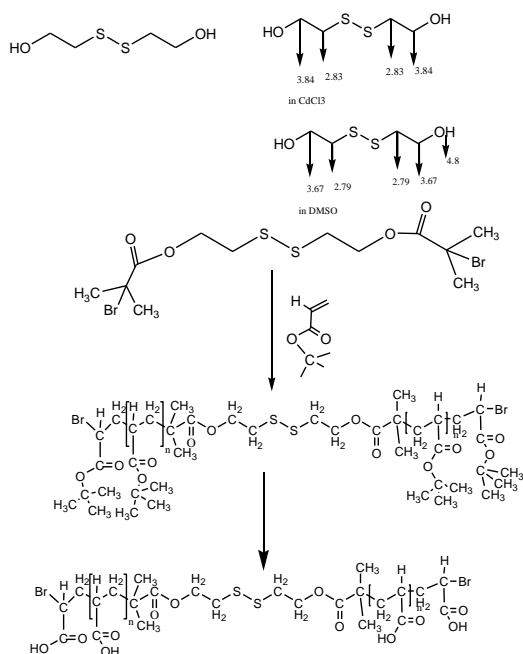


**Composition:**

Mnx10 <sup>3</sup>	PDI
11.0	2.8

**Synthesis Procedure:**

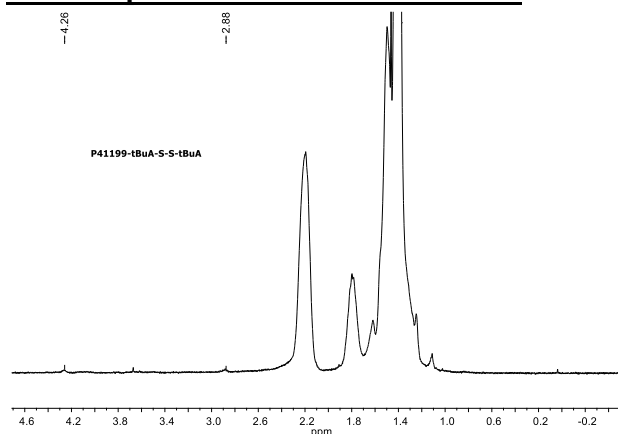
Poly(Acrylic acid) with disulfide linkage was prepared by ATRP polymerization process. The following reaction scheme shows how the product was prepared:



**Characterization:**

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

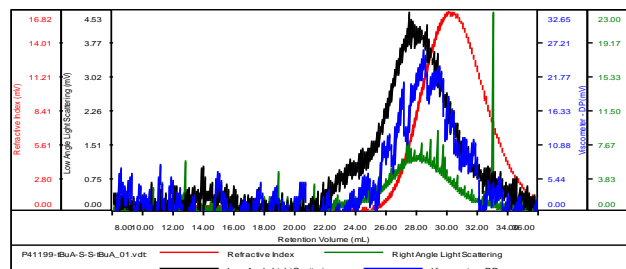
**<sup>1</sup>H NMR spectrum of the tBuA-S-S-tBuA:**



**SEC elugram of Sample:**

**P41199-tBuA-S-S-tBuA**

Concentration (mg/mL)	2.3534
Sample dn/dc (mL/g)	0.0840
Method File	PS99K-May-2018-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P41199-tBuA-S-S-tBuA	20,645	58,114	2.815	0.8125	34,756

**After Hydrolysis of ester Mn 11,000 Mw/Mn 2.8**