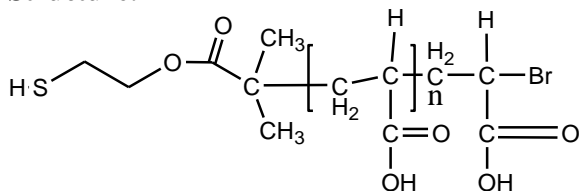


Sample Name: Thiol terminated Poly (acrylic acid)

Sample #: P41481A-AASH

Structure:

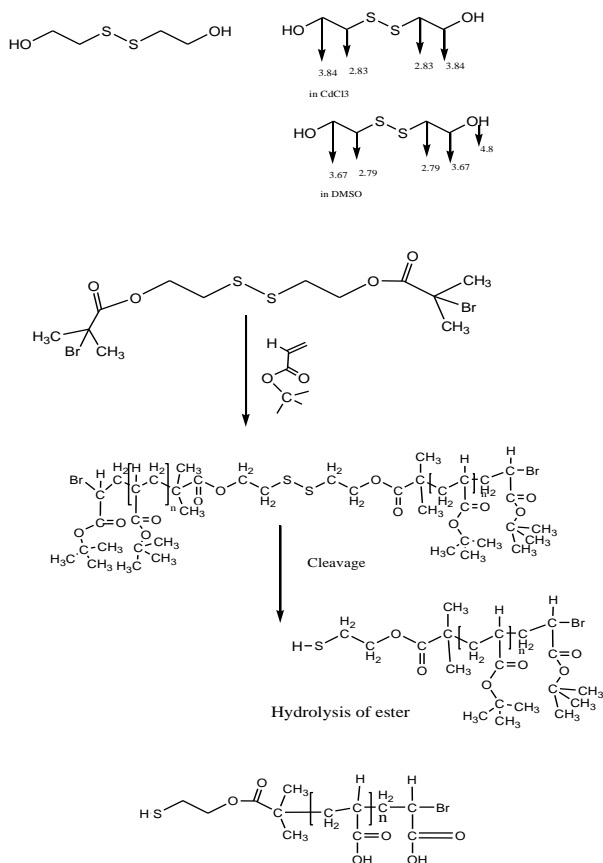


Composition:

Mw x10 ³	Mn x10 ³	PDI
29.5	20.0	1.47

Synthesis Procedure:

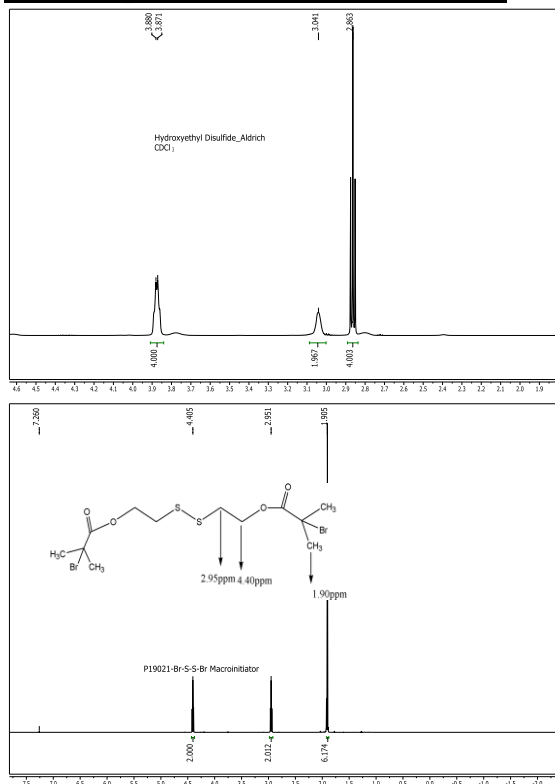
The polymer was synthesized by ATRP polymerization process. The following reaction scheme shows how the product was prepared:



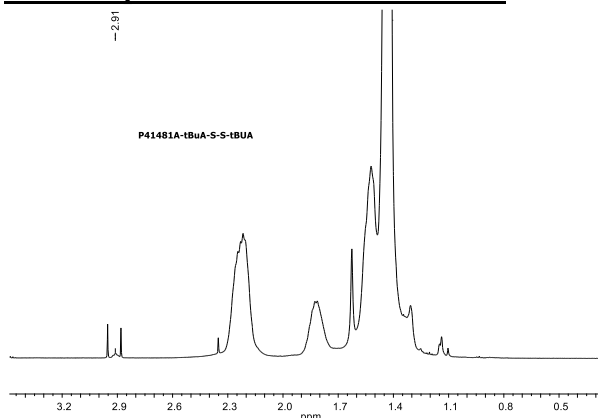
Characterization:

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

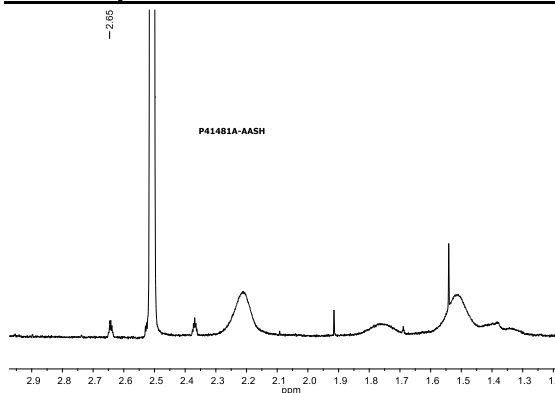
H NMR spectrum of the macroinitiator:



H NMR spectrum of the Disulfide form:

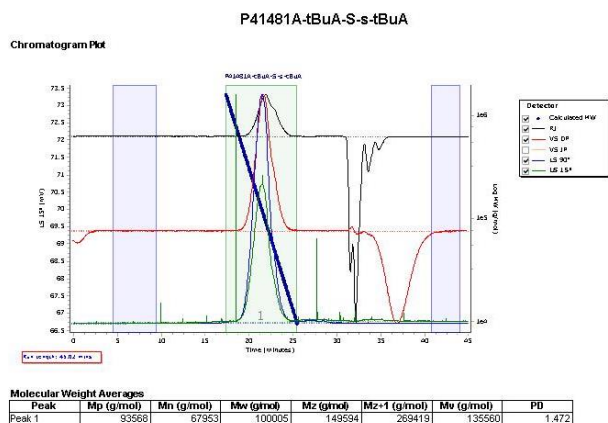


HNMR spectrum of PAA-SH runs in DMSO:



SEC elugram of the PtBuA-S-StBuA:

Agilent GPC/SEC Software



After Hydrolysis of tert-butyl ester and cleavage of disulfide:

PAA-SH Mn: 20,000 Mw/Mn: 1.47