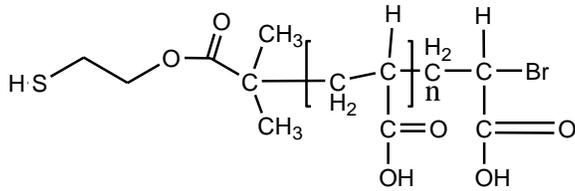


Sample Name: Thiol terminated Poly (acrylic acid)

Sample #: P41479-AASH

Structure:

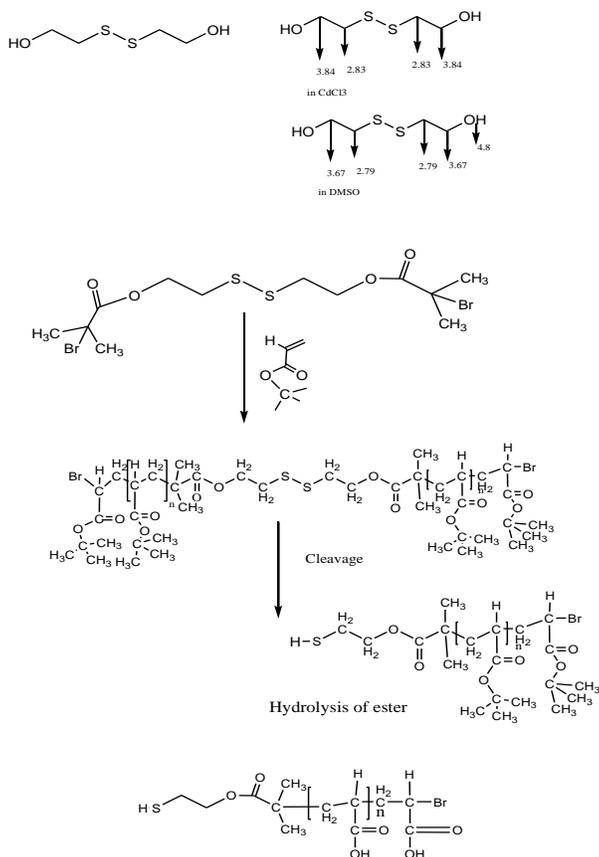


Composition:

Mw x10 ³	Mn x10 ³	PDI
8.5	7.0	1.20

Synthesis Procedure:

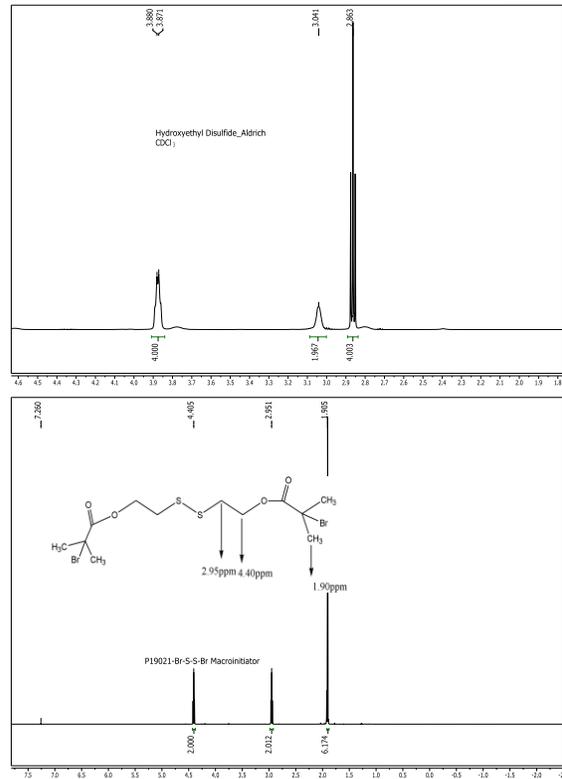
The polymer was synthesized by ATRP polymerization process. The following reaction scheme shows how the product was prepared:



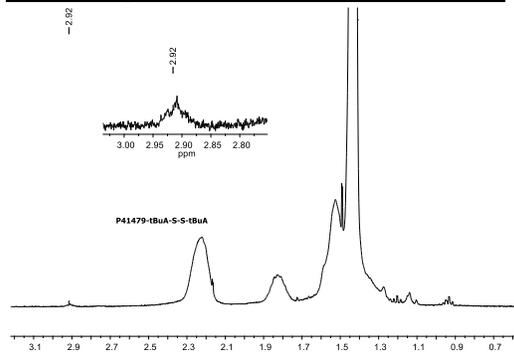
Characterization:

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

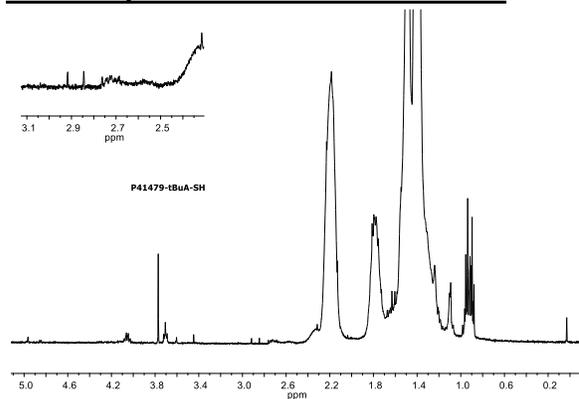
H NMR spectrum of the macroinitiator:



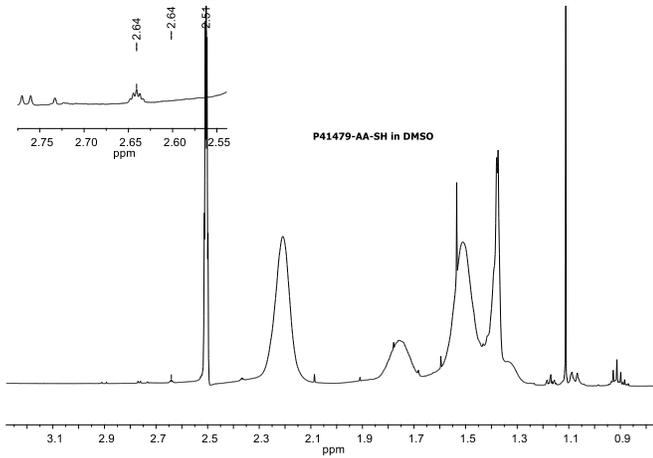
H NMR spectrum of the Disulfide form:



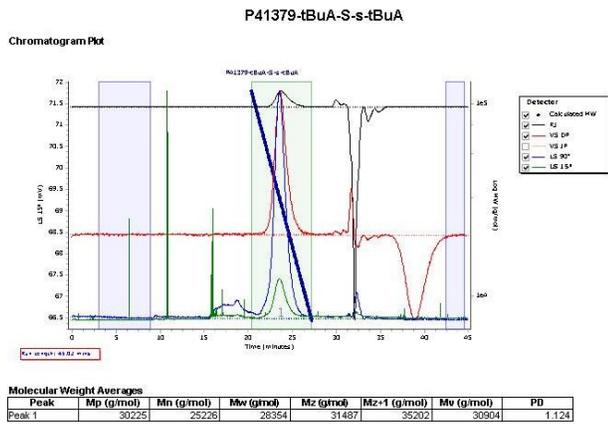
H NMR spectrum of the free thiol form:



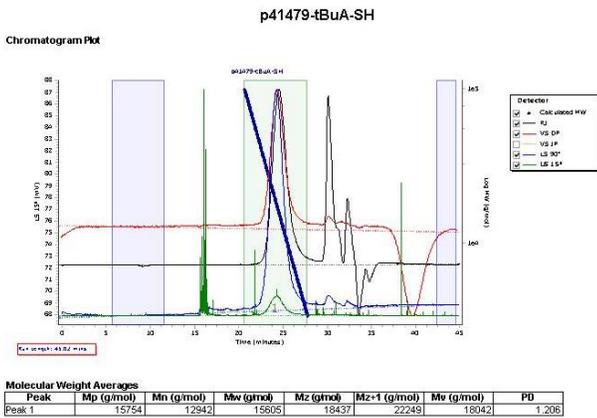
HNMR spectrum of PAA-SH in DMSO



SEC elugram of the PtBuA-S-StBuA:



SEC elugram of the PtBuA-S-H:



After Hydrolysis of tert-butyl ester:
PAA-SH Mn: 7,000 Mw/Mn: 1.20