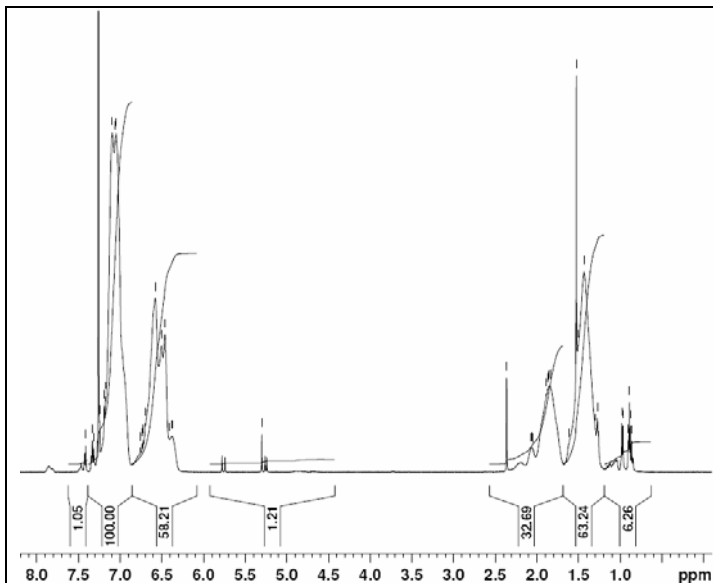


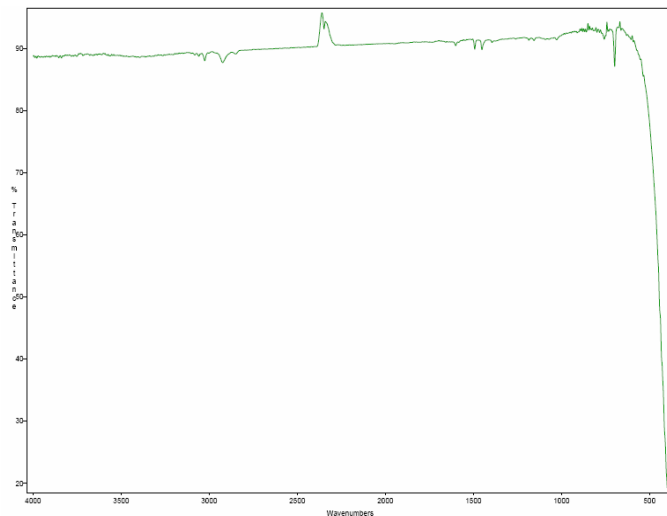
# No. AI35

# Certificate of Analysis

Product Name: Poly(Styrene)-2-Phenyl-2-propyl benzodithioate (Mw ~ 8000Da) (Lot#: 30227JSG)

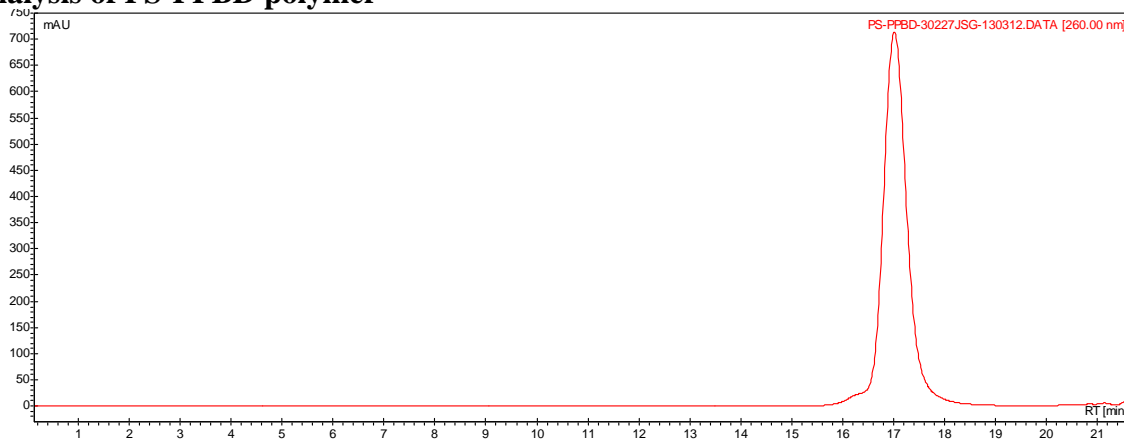


H-NMR Spectrum of PS-PPBD polymer in CDCl<sub>3</sub> (Varian Inova 500 MHz instrument), Styrene – phenyl *H*5 at ~7.3ppm



FTIR Analysis: Collected from cast-film on KBR salt-plate placed in Satellite FTIR (Thermo-Mattson) and analyzed in transmission mode.

- **GPC analysis of PS-PPBD polymer**



Analysis Method: Varian Prostar system with 1 ml/min DCM flow across two PLgel Resipore columns (Agilent). Detection via UV/Vis, calibrated against polystyrene standards

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
PS-PPBD	8516	8914	1.05

- **Structure of PS-PPBD polymer**

