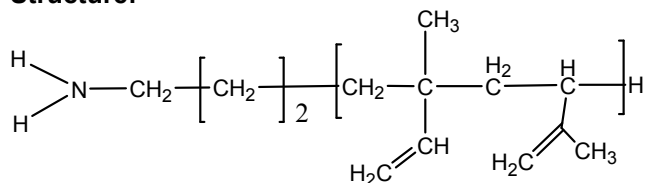


**Sample Name:** Amino Terminated Polyisoprene,  
1,2 and 3,4 -microstructure rich

**Sample #:** P11182A-IPNH2

**Structure:**

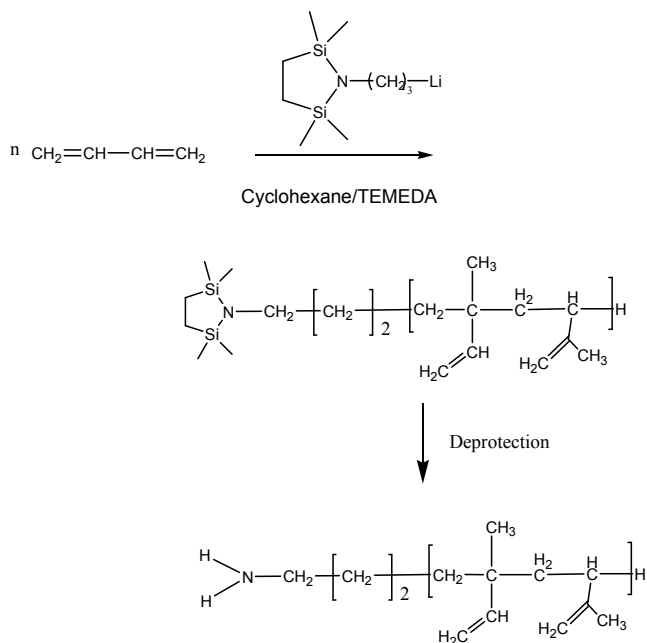


**Composition:**

Mn x 10 <sup>3</sup>	PDI
30.0	1.45
Functionality	>95%

**Synthesis Procedure:**

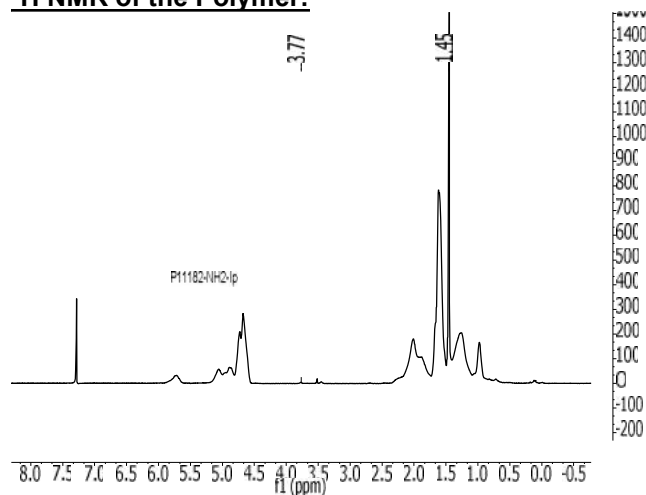
1,2 and 3,4 -addition NH<sub>2</sub> terminated polyisoprene was prepared by anionic living polymerization using amino protected initiator



**Characterization:**

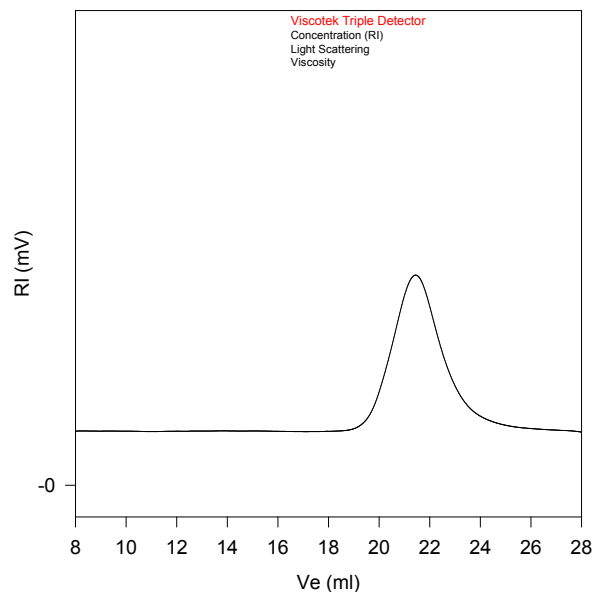
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. However, amino terminated polystyrene was found to interact with chromatography columns and therefore the amino group was protected by reaction with 1-naphthyl isocyanate before GPC analysis. Removal of the protecting group was confirmed by UV spectroscopy and the degree of functionality was confirmed by titration with HClO<sub>4</sub> using crystal violet as the indicator.

**<sup>1</sup>H NMR of the Polymer:**



**GPC profile of Sample:**

**P11182A-IPNH2**



Size Exclusion Chromatography of Poly isoprene NH<sub>2</sub> terminated

— M<sub>n</sub> = 30,000, M<sub>w</sub> = 43,500, M<sub>w</sub>/M<sub>n</sub> = 1.45