

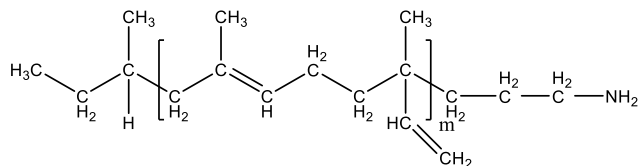
Sample Name:

**Amino Terminated Polyisoprene**

*1,4 microstructure rich*

Sample #: **P44181-IPNH2**

**Structure:**

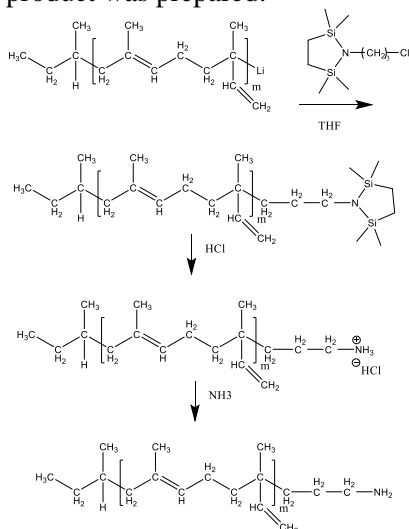


**Composition:**

Mn x 10 <sup>3</sup>	PDI
21.5	1.01
Functionality >95%	

**Synthesis Procedure:**

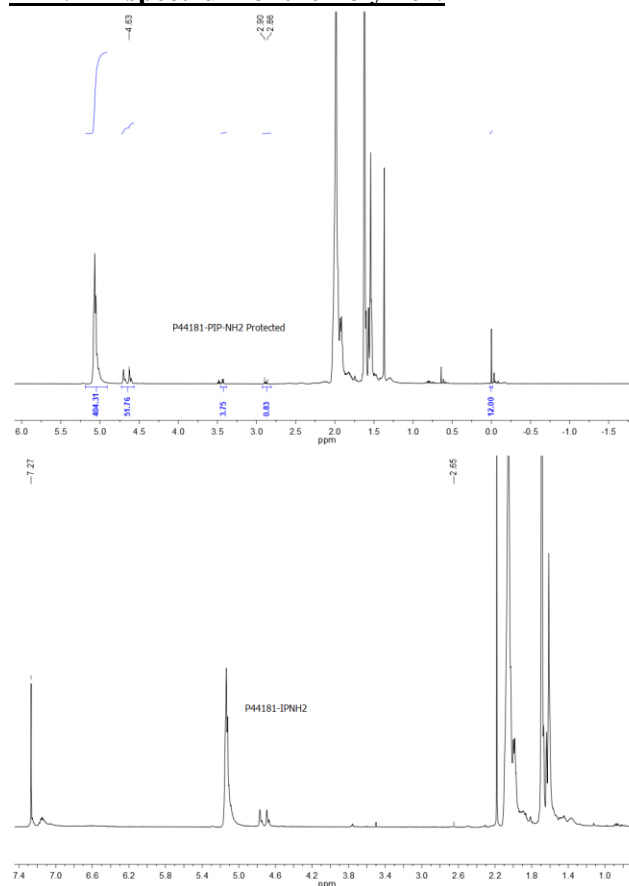
The following reaction scheme shows how the product was prepared:



**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 spectrum of the Polymer:**



**SEC profile of the Sample:**

