

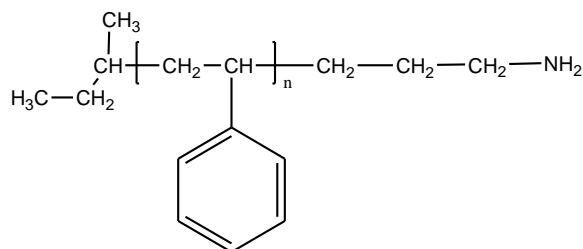
Product Profile

Identification

Product Name: Amino Terminated Polystyrene

Product Lot Number: P4045-R-SNH2

Chemical Architecture:

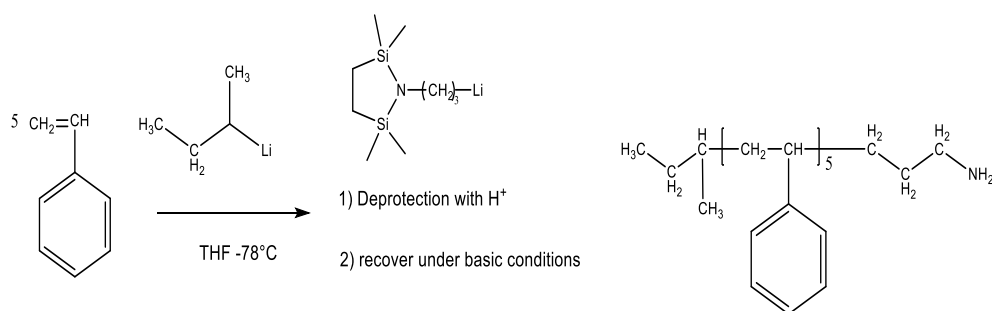


Composition:

Mn (g/mole)	32,000
Mw (g/mole)	34,000
Mw/Mn	1.10
Primary Amino group test using ninhydrin	Blue color pass

Method of Synthesis

Amino terminated polystyrene was synthesized by anionic living polymerization with different end-grouping strategies. The reaction schemes are shown below:



Solubility in different solvents:

THF	√	Methanol	X
CHCl3	√	Hexane	X
Toluene	√		

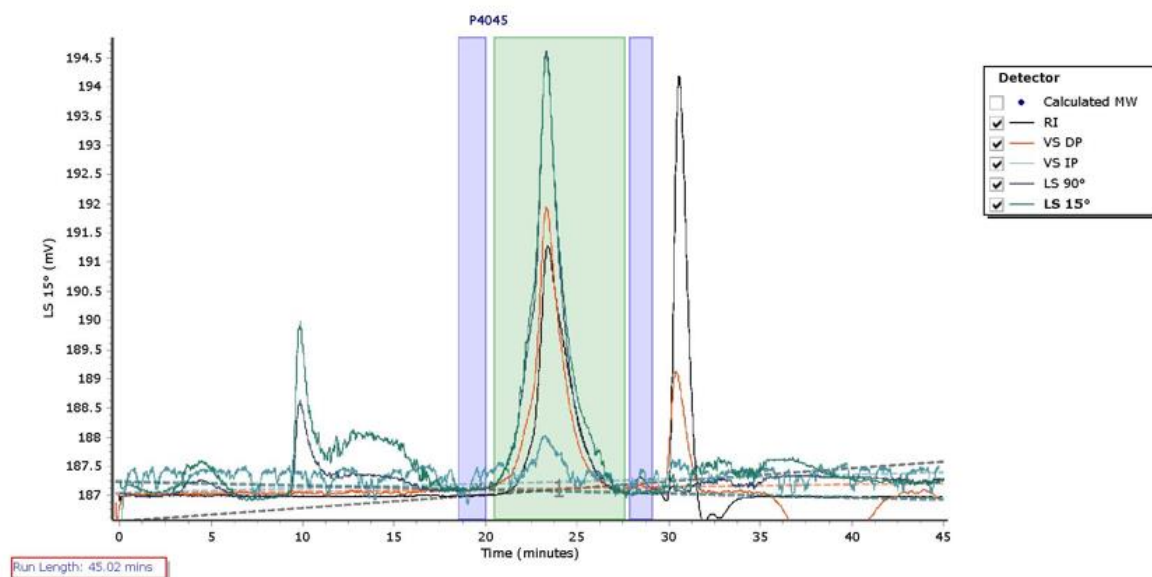
Validation of Architecture

A. Gel Permeation Chromatography (GPC), SEC Profile:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC).

P4045

Chromatogram Plot



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	37152	31616	33816	35998	38188	35799	1.07