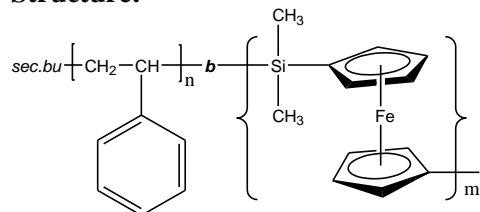


Sample Name:  
**Poly(styrene-b-ferrocenyldimethylsilane)**

Sample #: **P43626-SFES**

**Structure:**



**Composition:**

Mn $\times 10^3$ S-b-FES	Mw/Mn (PDI)
500.0-b-3.5	1.47

$T_g$  for PS block: 106°C  
 $T_g$  for FES block: 21°C

**Synthesis Procedure:**

Poly(styrene-b-ferrocenyldimethylsilane) is prepared by anionic living polymerization by successive addition of styrene followed by the addition of ferrocenyldimethylsilane monomer. In this lot addition of monomer was reversed

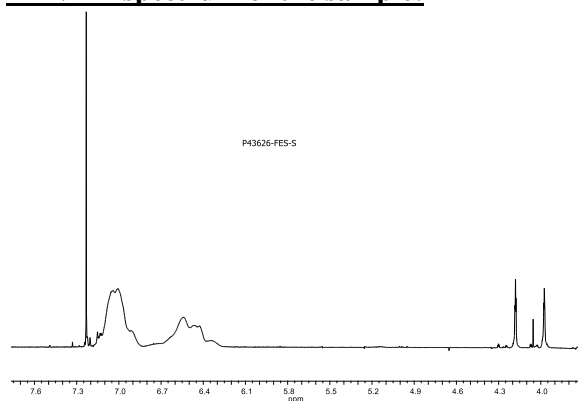
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and  $^1\text{H}$  NMR data analysis.

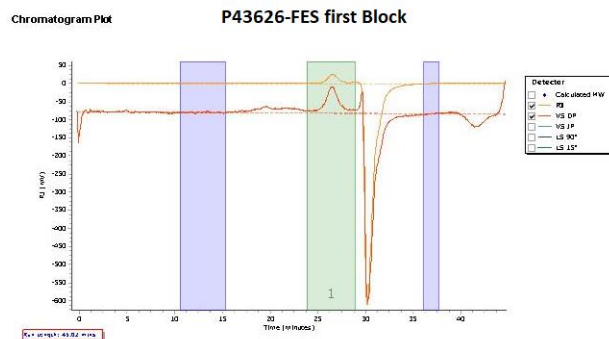
**Solubility:**

Polymer is soluble in THF,  $\text{CHCl}_3$ , Toluene and precipitate out from ether and hexanes.

**$^1\text{H}$  NMR spectrum of the sample:**

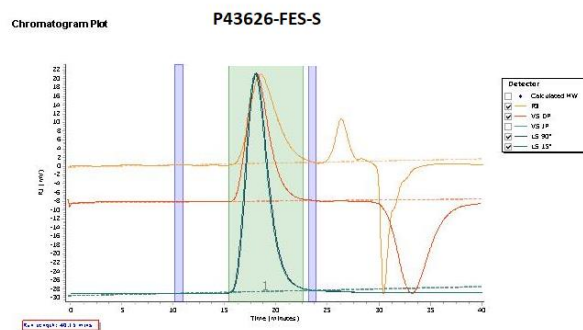


**SEC profile of the First block:**



Molecular Weight Averages							
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mo (g/mol)	PDI
Peak 1	3492	3317	3412	3504	3597	3490	1.029

**SEC profile of the block copolymer:**



Molecular Weight Averages							
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mo (g/mol)	PDI
Peak 1	778236	502127	738517	978105	1196605	952183	1.471