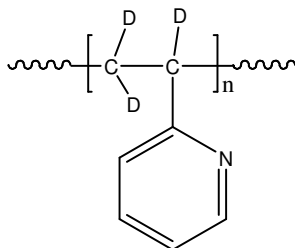


Sample Name:

**Deuterated (d3) Poly(2-vinyl pyridine)**  
(ethyl groups are deuterated)

Sample #: **P18877-d3P2VP**

Structure:



Composition:

Mn x 10 <sup>3</sup>	PDI
27.0	1.10

Synthesis Procedure:

The polymer was prepared by anionic living polymerization process.

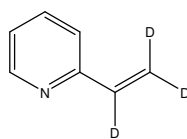
Characterization:

By size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

Solubility:

Polymer is soluble in DMF, THF, toluene, methanol, ethanol and CHCl<sub>3</sub>. It precipitates from water and hexanes, ether.

Structure: For the monomer used



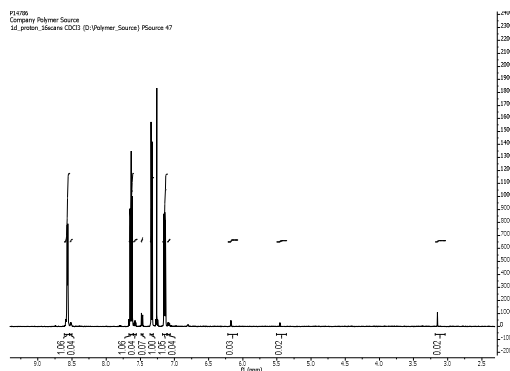
C<sub>7</sub>H<sub>4</sub>D<sub>3</sub>N  
Mol. Wt.: 108.16

**2-vinylpyridine-d3 (P14786)**

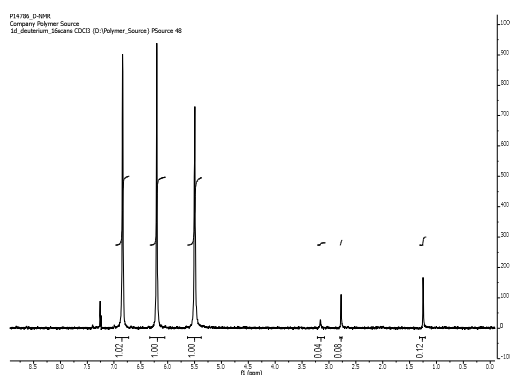
Characterization:

CAS	352530-46-2
D atom purity	98 %
Chemical Purity	90 %
2-Ethynylpyridine (impurity)	6 %
2-Ethylpyridine-d5 (impurity)	4%

**<sup>1</sup>H NMR of P14786**



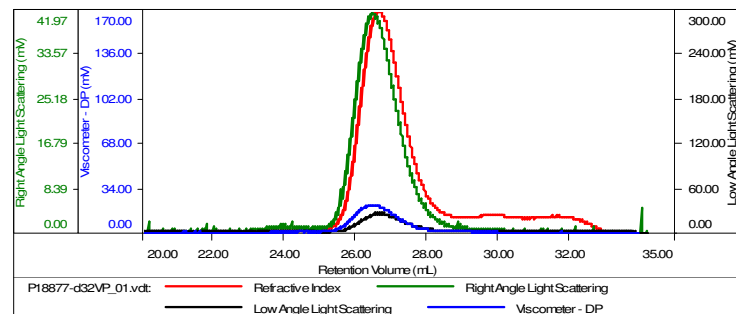
**<sup>2</sup>D NMR of P14786**



**SEC elugram:**

Sample ID: **P18877-d32VP**

Concentration (mg/mL)	2.8139
Sample dn/dc (mL/g)	0.1670
Method File	PS80K-0903-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P18877-d32VP_01.vdt	27,175	29,865	29,665	1.099	0.2062