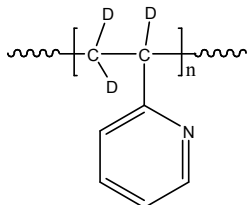


Sample Name:

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

Sample #: **P40296-d3P2VP**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
271.0	1.4

**Synthesis Procedure:**

The polymer was prepared by RADICAL polymerization process.

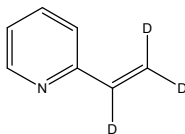
**Characterization:**

The product was characterized 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, hexanes and ether.

**Structure: For the monomer used**



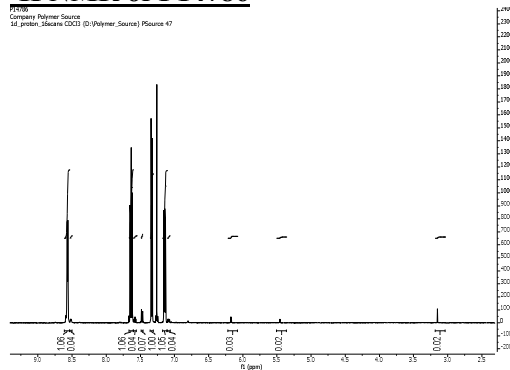
C<sub>7</sub>H<sub>4</sub>D<sub>3</sub>N  
Mol. Wt.: 108.16

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

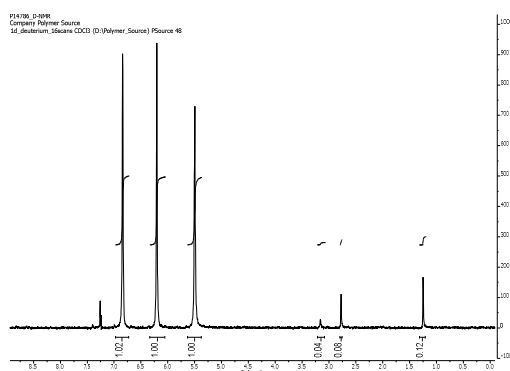
**Characterization:**

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**



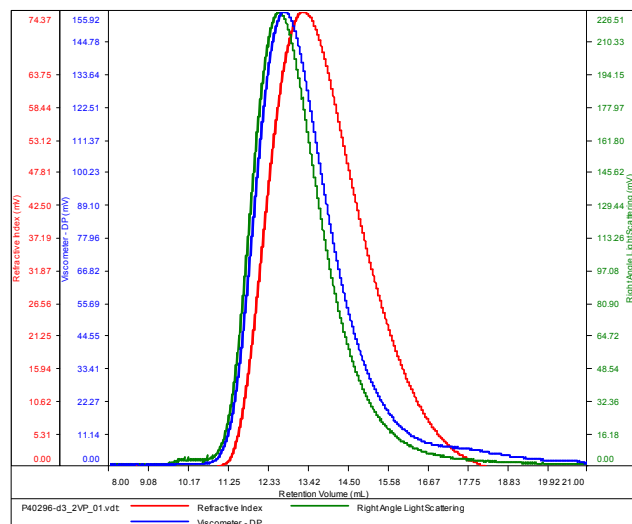
**<sup>2</sup>D NMR of P14786**



**SEC elugram:**

**P40296-d32VP**

Conc (mg/mL)	8.5726
dn/dc (mL/g)	0.1530
Method	PS80k_December-2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40296-d3_2VP_01.vdt	271,483	399,921	402,154	1.473	0.4875