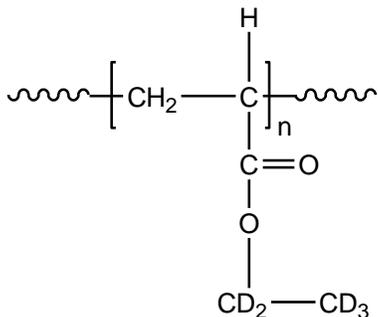


**Sample Name: Poly(ethyl-d5 acrylate) ester deuterated**

**Sample #: P10813C-d5PEA (ester deuterated)**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
1.8	1.5

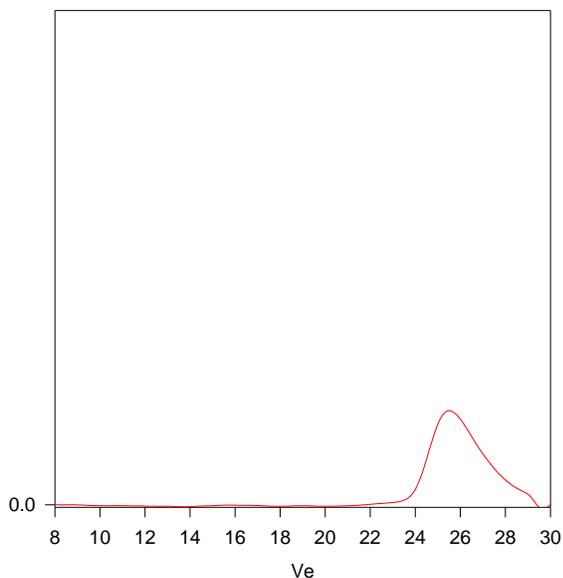
**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained 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. <sup>1</sup>H NMR analysis was carried out on Varian instrument at 500MHz.

Polymer is soluble in THF, CHCl<sub>3</sub>, toluene and dioxane. The polymer precipitates from hexanes, methanol and ethanol.

**SEC profile:**

**P10813C-d5PEA**



Size Exclusion Chromatography of Deuterated Poly(ethyl acrylate)-d5:  
M<sub>n</sub>= 1800, M<sub>w</sub>= 2700, M<sub>w</sub>/M<sub>n</sub>=1.5