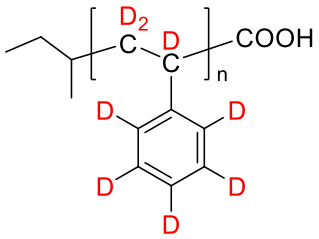
Sample Name: **Deuterated Poly(styrene-d_8), ω-carboxy-terminated**

Sample #: **P6023-dPS**

Structure:



Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
51.8	1.03

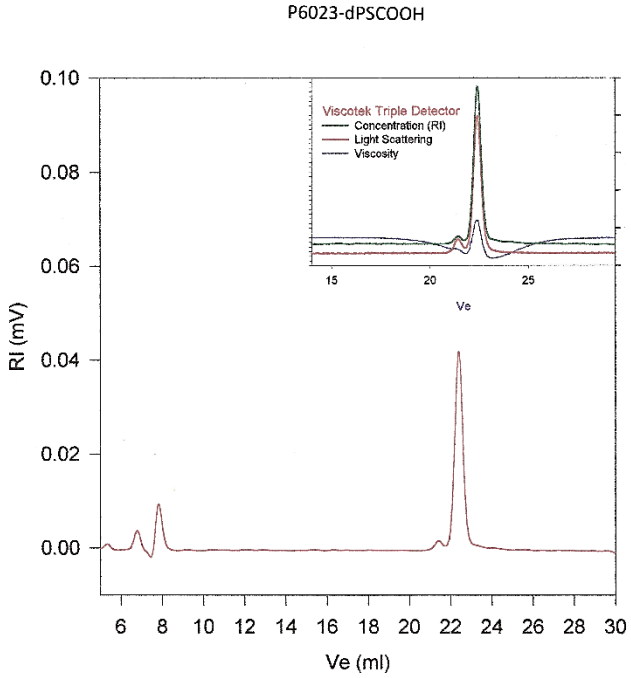
Synthesis procedure:

Deuterated polystyrene-d_8 was obtained by free radical polymerization process.

Characterization:

The molecular weight and polydispersity index (M_w/M_n) were obtained by size exclusion chromatography (SEC) in THF. Degree of functionality (-COOH end-group, %) was determined by titration.

SEC chromatogram:



Size Exclusion Chromatography of deuterated polystyrene: (before addition of CO_2)

M_w/M_n = 1.03 (calculated from polystyrene calibration)

M_n = 51800, [η] = 0.322 dL/g (THF, 30°C), Rg = 8.50nm (from Viscotek Triple detector)

Functionality verified by titration: f > 0.92