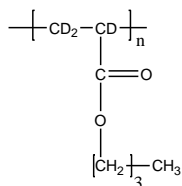


### Backbone protons are deuterated

### Structure:



Mn x 10 <sup>3</sup>	PDI
12.0	1.04

Poly(d3 acrylic acid) is obtained by the RAFT polymerization for d3AA monomer in dioxane. Then the obtained polymer was trans-esterified in presence of n-butanol.

CCOC(=S)S[C@H](C)C(=O)OC

Chemical Formula:  $C_7H_{12}O_3S_2$   
Molecular Weight: 208.3

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

Molecular Weight Averages							
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	12552	11795	12278	12755	13227	12686	1.04