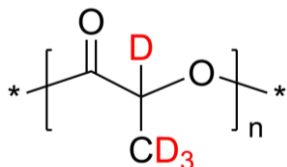


Sample Name: Deuterated Poly(D-lactide-d4)

Sample #: P60220A-d4LA

Structure:



Composition:

Mn × 10 ³	PDI
75.5	1.25

D Atom %	>95
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Synthesis Procedure:

The polymerization of d8 deuterated 3,6-dimethyl-1,4-dioxane-2,5-dione was carried out in bulk.

Purification:

The polymeric solution was precipitated from CHCl₃ and/or acetone into a large excess of hexane.

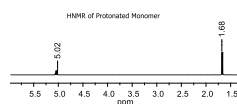
Solubility:

Deuterated Poly (lactide) is soluble in toluene, THF, CHCl₃ and CH₂Cl₂. The polymer is insoluble in methanol, hexane and ether.

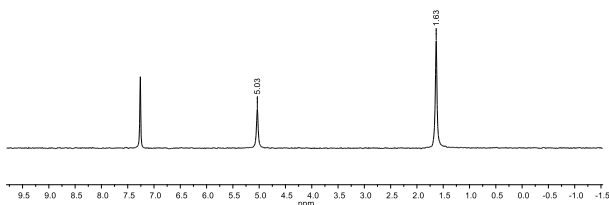
Characterization:

The molecular weight is obtained from ¹H NMR and D₂ NMR and polydispersity index (PDI) was obtained by size exclusion chromatography.

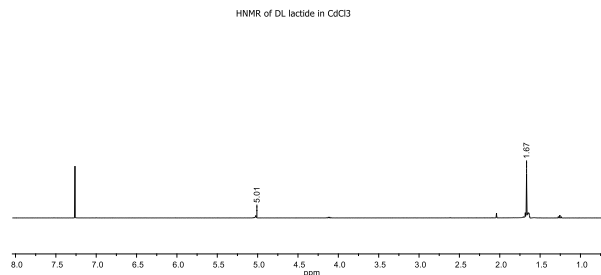
²H NMR spectrum of the monomer -d8:



D NMR of Lactide monomer run in CdCl₃
Lot # P60216 D atom % >95%



¹H NMR spectrum of the monomer in CdCl₃:



SEC of deuterated polylactide:

