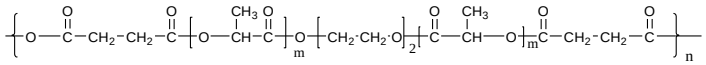
Sample Name:
Polyanhydride based on polylactide (DL form)

Sample #: **P4980A-LA-Anh**

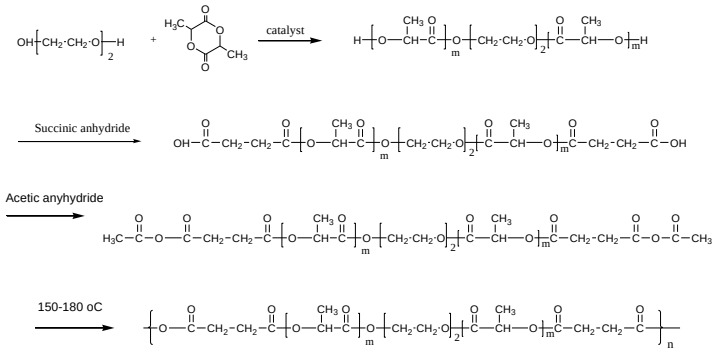
Structure:



Composition:

M_n x 10^3 (g/mol) (total)	41.5
M_w/M_n	1.7
M_n of polylactide chain	5000
Number of repeating polylactide chain	n = 8

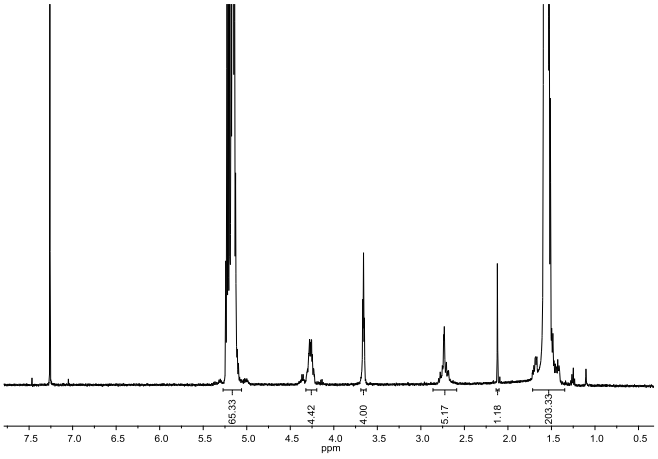
Synthesis Procedure:
The polyanhydride based on polylactide is prepared according to the following reaction scheme:



Characterization:
The polymer is characterized by size exclusion chromatography (SEC) and ^{1}H-NMR. The molecular weight obtained is relative to polystyrene standard.

Solubility:
The polyanhydride is soluble in chloroform, DMF. It precipitated out from ether and hexanes.

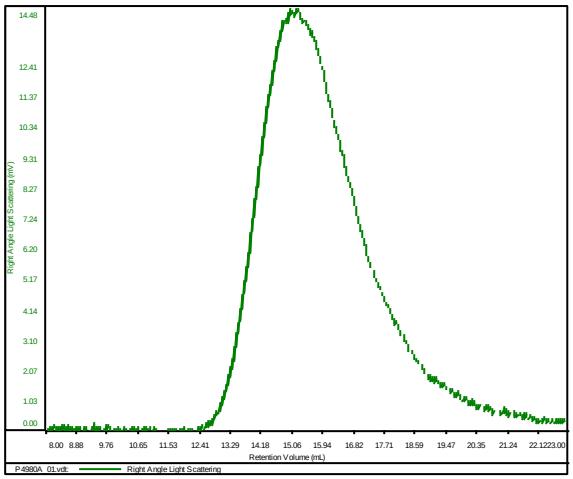
^{1}H NMR spectrum of the polyanhydride:



SEC elugram of the polyanhydride:

P4980A

Conc	2.1001
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS-80k_2018-04-02-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P4980A_01.vdt	41,553	69,318	43,015	1.668	1.7875

For details see our Patents:
S. K. Varshney, Olexander Hnojewyl, J.X. Zhang, and Patrick Rivelli, US Pat 7,674,285 B2 2010
Poly anhydride Polymers and Their Uses inn Biomedical Devices
And 2009/0253806A1