

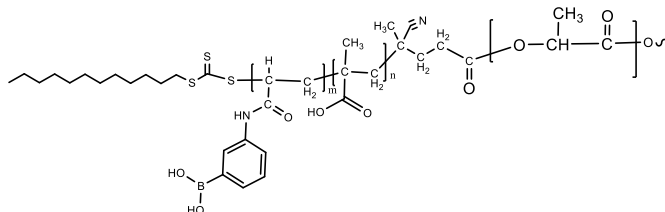
Product Profile

Identification

Product Name: Poly(dl-lactide)-b-poly(methacrylic acid-co-3-acrylamidophenylboronic acid)

Sample #: P45743A-LAMAAPBA

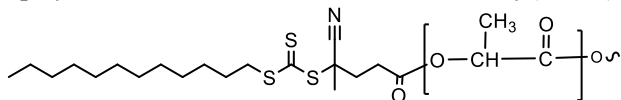
Structure:



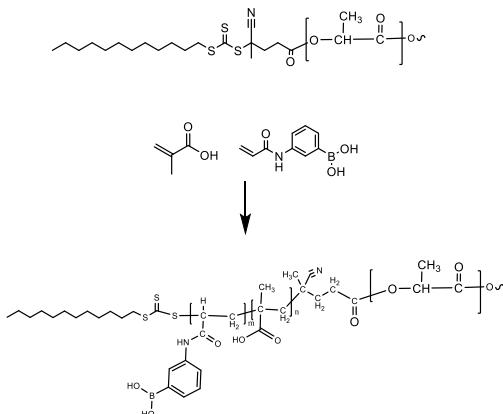
Composition:

Mn x 10 ³ PDLLA-b-MAAPBA	Mw/Mn (PDI)	Dp of copolymer by HNMR	Dp of copolymer by HNMR In DMSO+CD ₃ Cl
5.0-b-41.0	1.4	In DMSO PDLLA ₇₀ -b-MAA ₃₈₀ PBA ₅₆	
		In DMSO+ a drop of D ₂ O PDLLA ₇₀ -b-MAA ₃₈₀ PBA ₅₈	

Method of Synthesis. 2 step synthesis 1. RAFT macroinitiator of Poly(dl LA) of Mn 5000



2. Reaction of RAFT macroinitiator with MAA and PBA monomer **in Dioxan** with trace amount of water



Solubility in different solvents : depending on the compositions

THF	X	Methanol	√	Acetone	X
					Cloudy soft heterogeneous solution
CHCl ₃	X	DMSO	√	Aceton:Methanol 5:5	√

Purification of Polymer By Soxhlet in acetone: to remove any traces amount of PDLLA and unreacted RAFT and traces amount of MAA and PBA monomer.

E. TGA of the polymer run at 10 °C heating rate:

