polymers

MDPI

Supplementary Information

Poly(butylene succinate-*co*-ε-caprolactone) Copolyesters: Enzymatic Synthesis in Bulk and Thermal Properties

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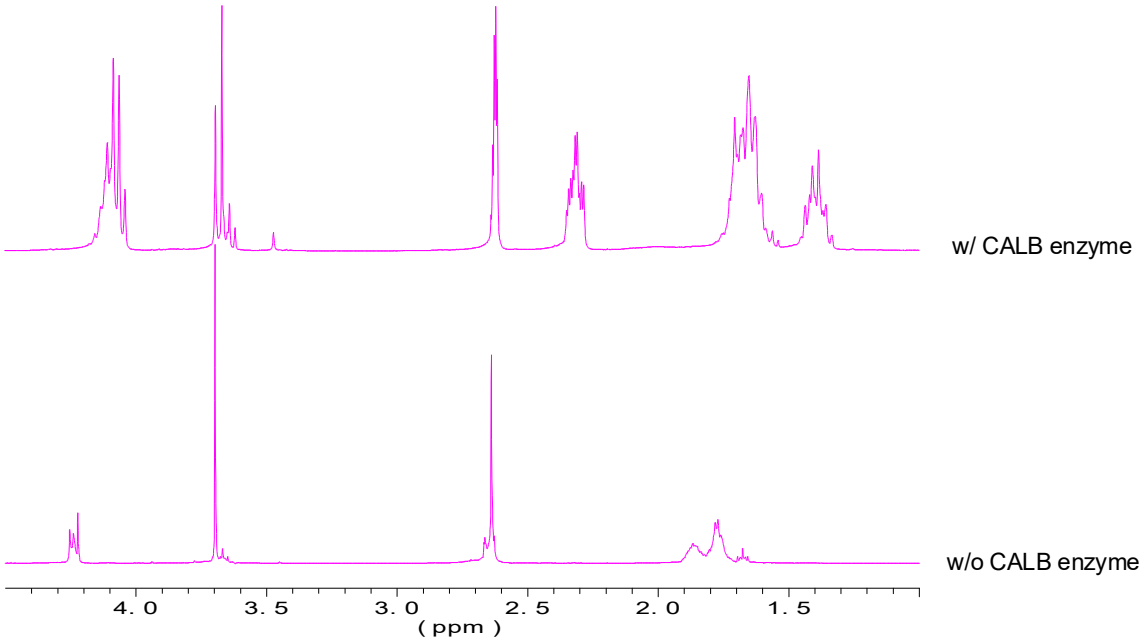

Figure S1. ^{1}H NMR spectra of the reaction of BD with CL and DMS at 90 ºC for 24 hours in the presence (top) or absence (bottom) of CALB enzyme. No vacuum was applied in the two cases.

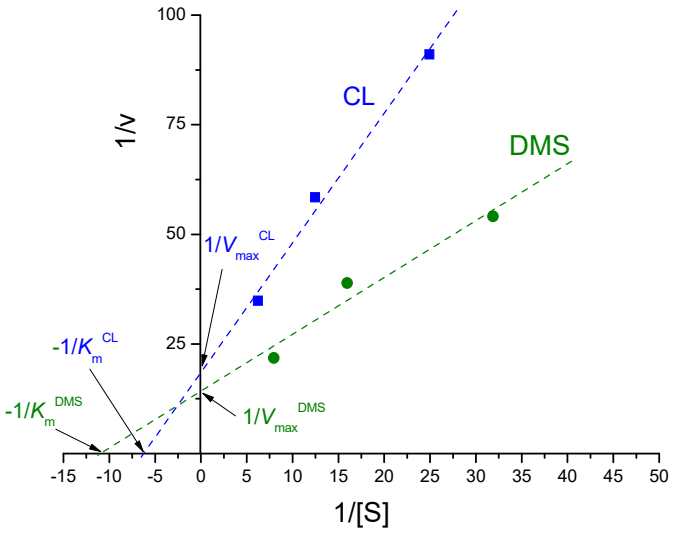

Figure S2. Lineweaver-Burk plot (1/V versus 1/[S]) for the determination of K_m and V_{max} for the reaction of benzyl alcohol with caprolactone (CL) or dimethyl succinate (DMS) in the presence of CALB enzyme.

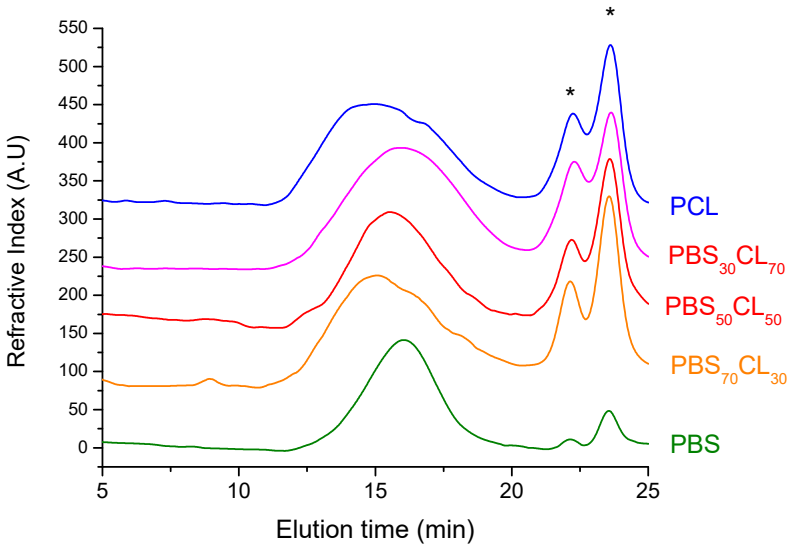

Figure S3. GPC chromatograms of PBS, PCL and PBS_xCL_y copolyesters recorded at 35 ºC using HFIP as eluent. (*) peaks of sodium trifluoroacetate salt and impurity solvents.

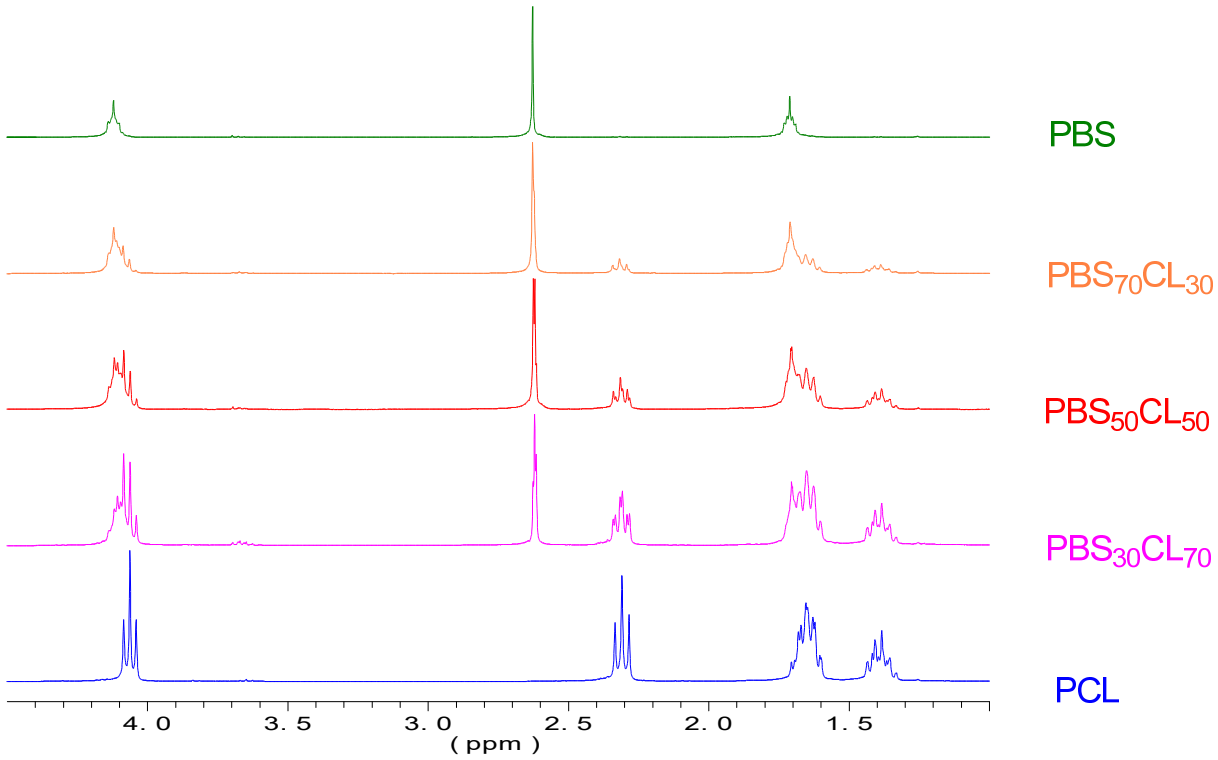

Figure S4. ^{1}H NMR spectra of PBS, PBS$_x$CL$_y$ and PCL recorded in $CDCl_3$ with peak assignments.

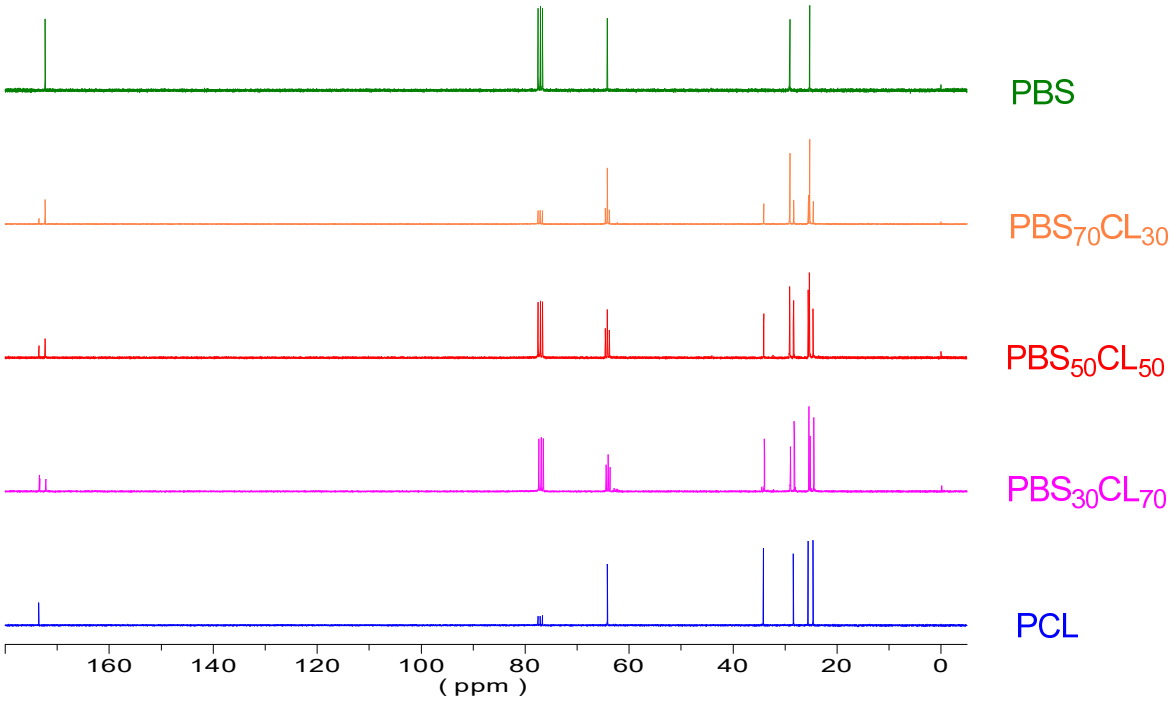

Figure S5. ^{13}C NMR spectra of PBS, and PBS$_x$CL$_y$ and PCL recorded in $CDCl_3$ with peak assignments.

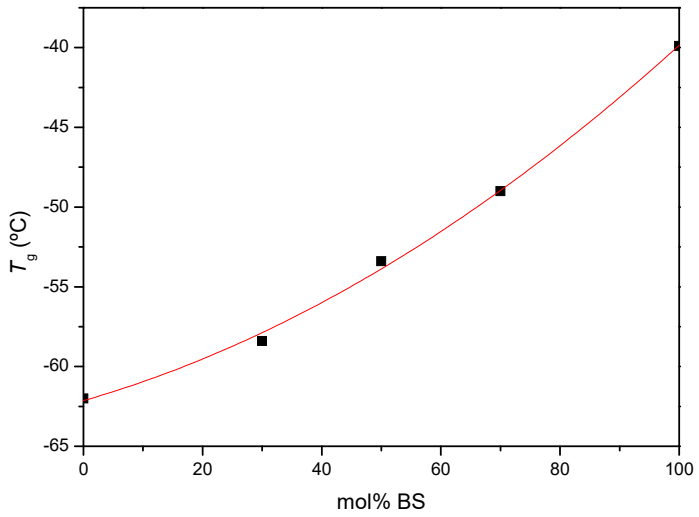

Figure S6. Evolution with composition of the glass transition (T_g) of PBS_xCL_y copolyesters