

Supplementary Materials: A Biodegradable Copolyester, Poly(Butylene Succinate-*co*- ϵ -Caprolactone), as High Efficiency Matrix Former for Controlled Release of Drugs

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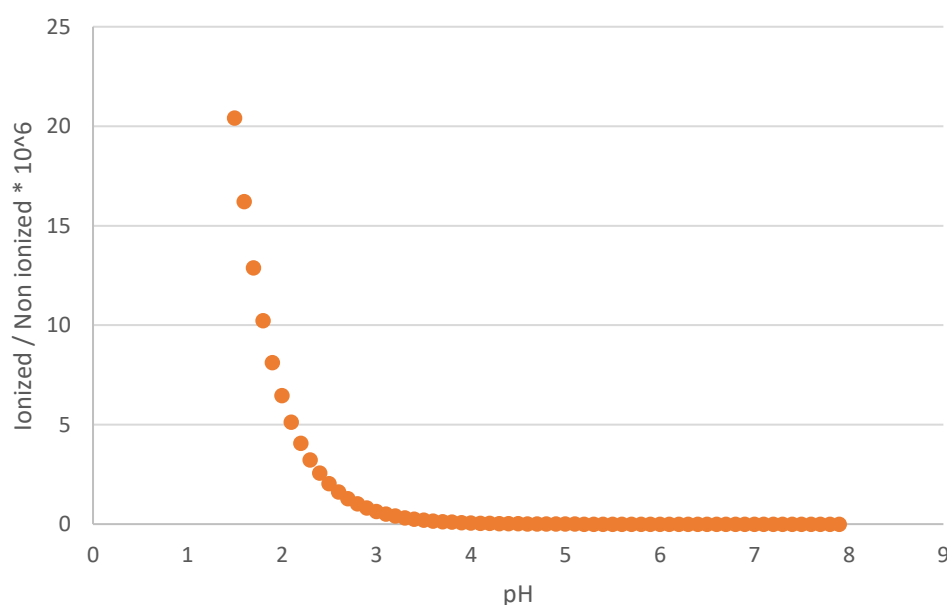


Figure S1. Theophylline distribution of ionized/non ionized form.

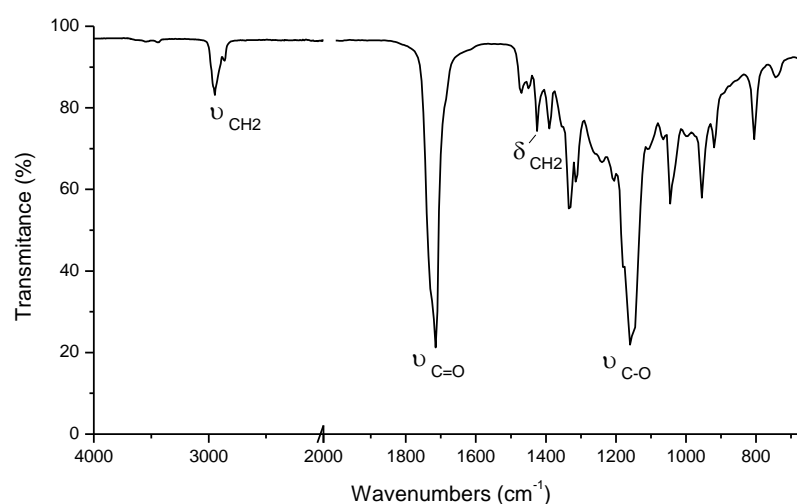
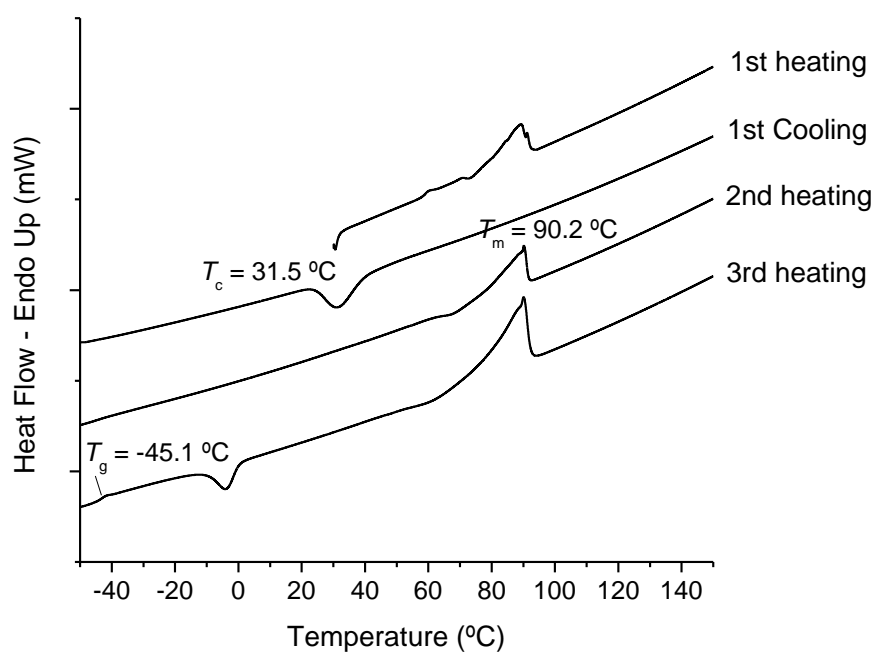
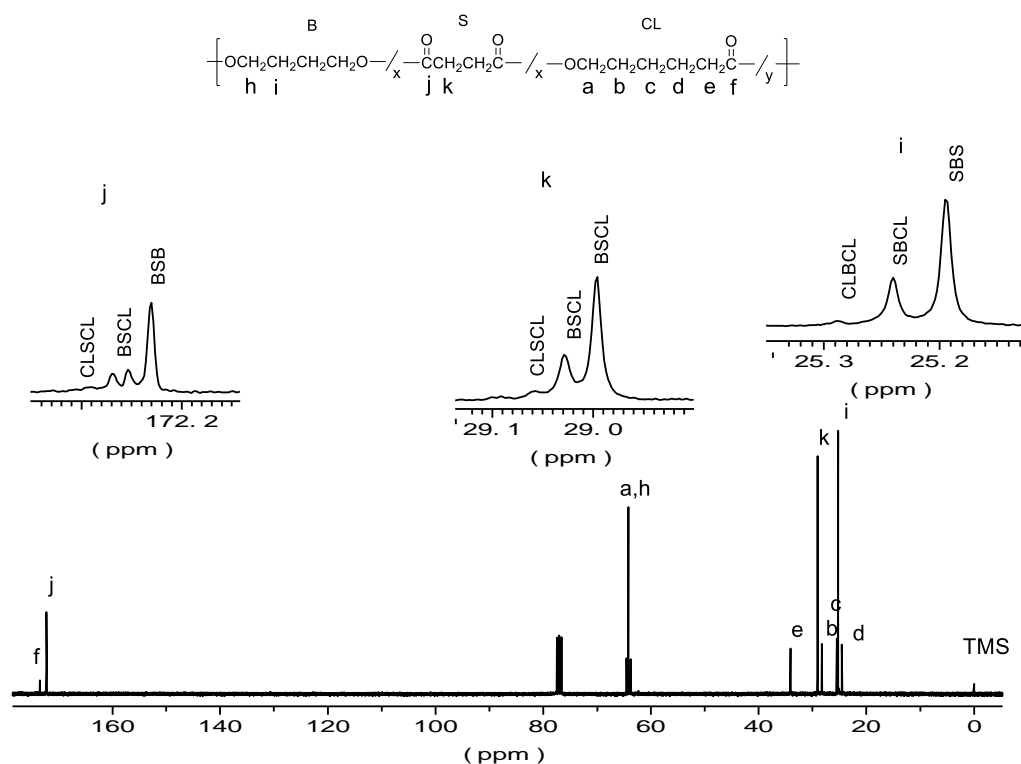


Figure S2. FTIR spectrum of PBS_CL copolyester with main absorption bands assigned to stretching (ν) and bending (δ) modes of different functional groups.



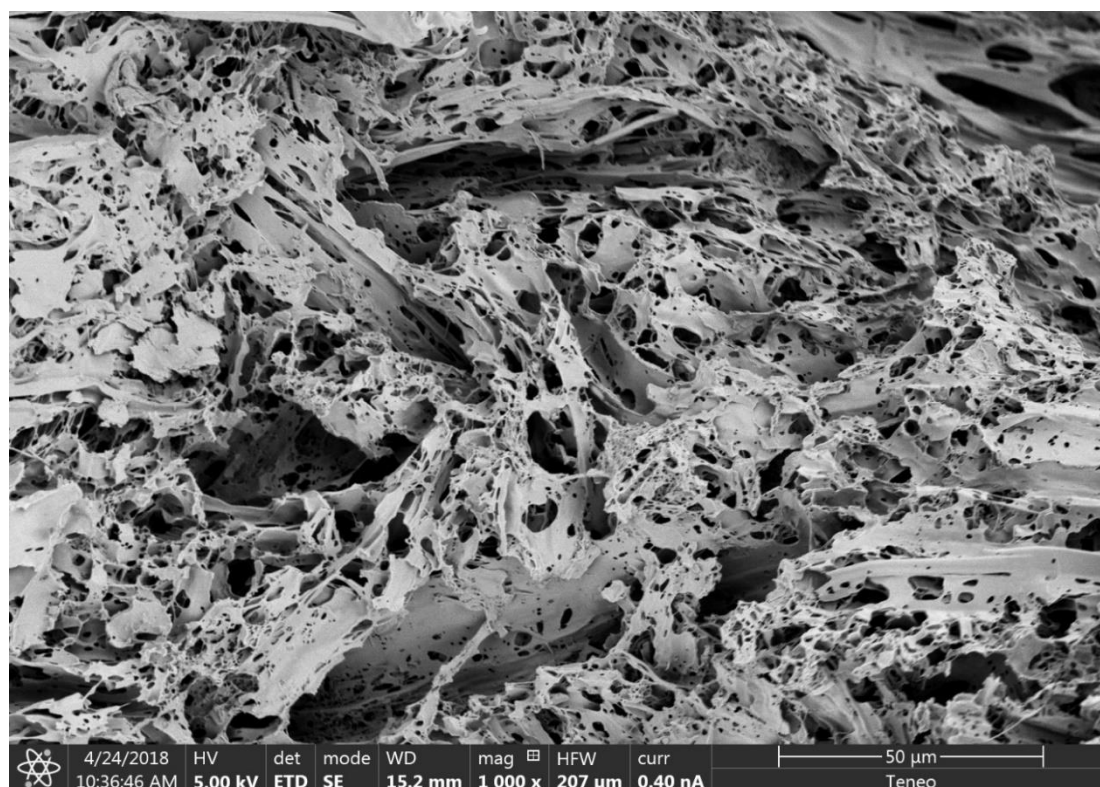


Figure S5. High resolution SEM image of PBS_CL tablets obtained by USAC (23:77 % v/v) after drug release. Detail of the nanostructured matrix at 1000x.

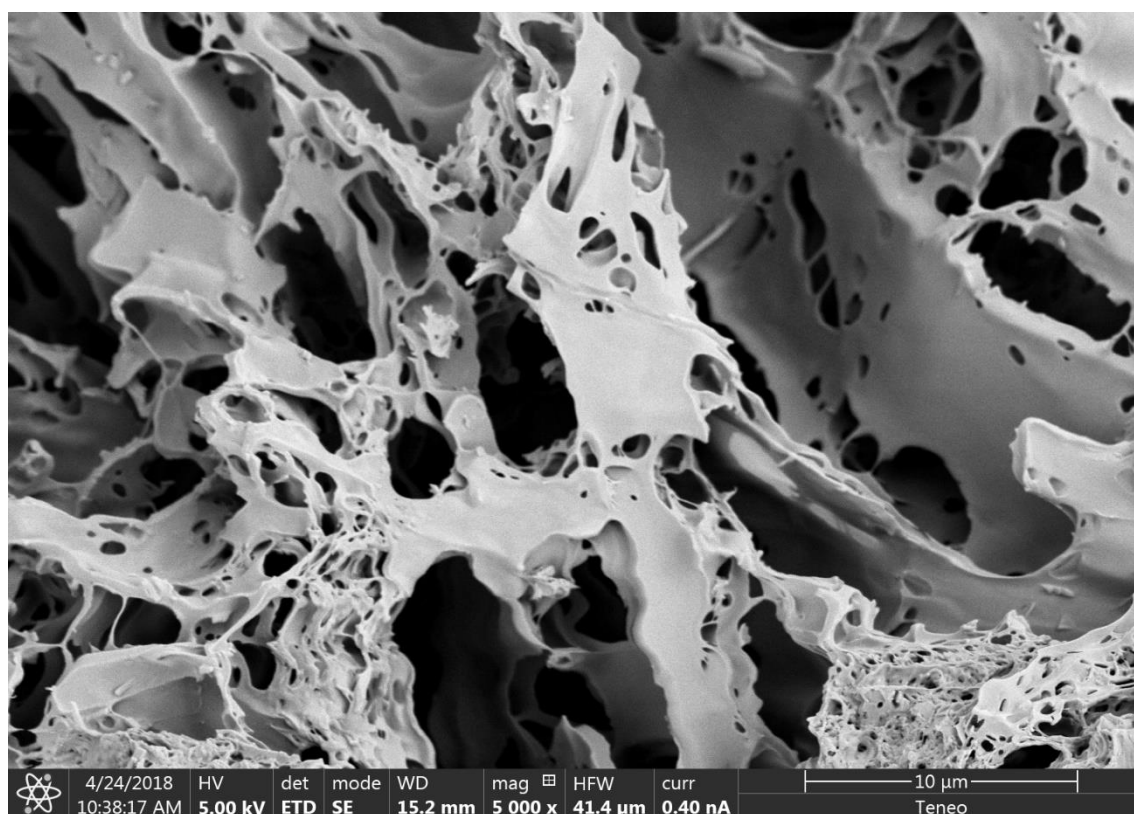


Figure S6. High resolution SEM image of PBS_CL tablets obtained by USAC (23:77 % v/v) after drug release. Detail of the nanostructured matrix at 5000x.

Table S1. Molecular weights of PBS_CL copolyester.

Copolymer	NMR		GPC	
	M _n (g/mol)	M _n (g/mol)	M _w (g/mol)	<i>D</i>
PBS_CL	21500	24300	51400	2.1

Table S2. Composition and microstructure of PBS_CL copolyester.

Copolymer	Composition (BS/CL mol/mol)		Microstructure (B-centered triad content)			
	Feed	Polymer	CLBCL	CLBS	SBS	R
PBS_CL	70/30	73,2/26,8	2.8	27.7	69.7	1.07

Table S3. TGA parameters of PBS_CL copolyester.

Copolymer	^o T _d 10% (°C)	max T _d (°C)	R _w (%)
PBS_CL	360	403	1,3

Table S4. Thermal properties of PBS_CL copolyester after the first heating run.

Copolymer	T _g (°C)	T _c (°C)	T _m (°C)	T _{cc} (°C)	ΔH _m (J/g)
PBS_CL	-45.1	31.5	90.2	-3.9	51.5