



Supplementary Materials

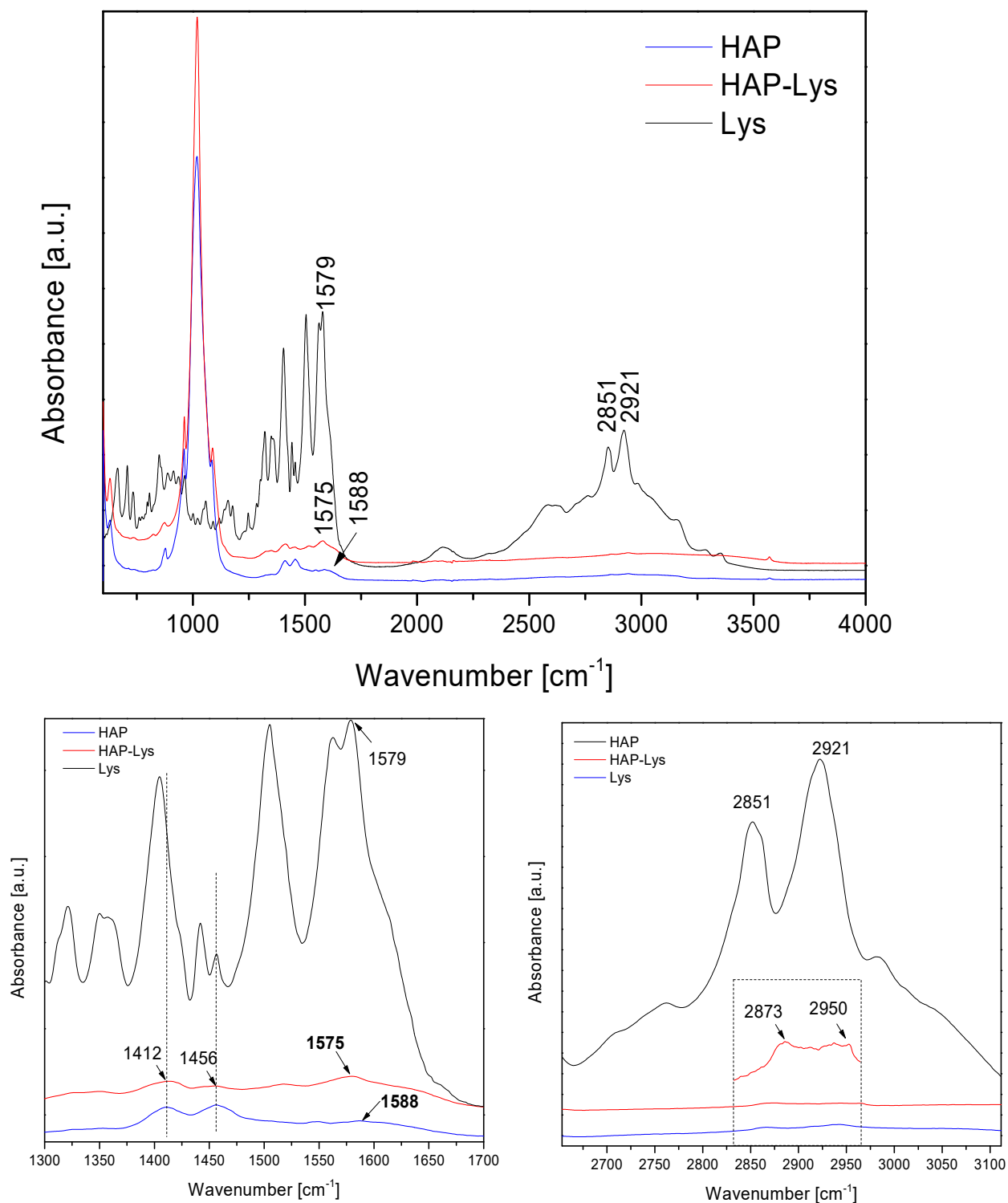


Figure S1. ATR-FTIR spectra of HAP (blue), L-lysine (black) and HAP modified with L-lysine (red).

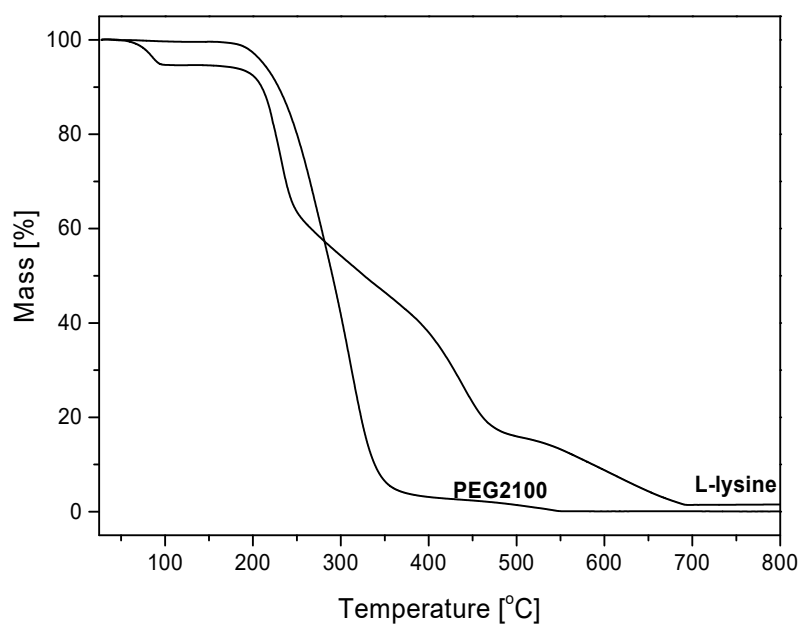


Figure S2. TGA curves of PEG 2100 and L-lysine.

Table S1. Values of water contact angle measurements.

Sample	PLLA	PLLA/HAP	PLLA/HAP-Lys	PLLA/HAP-Lys/PEG600	PLLA/HAP-Lys/PEG2100
Water contact angle [°]	66.2	66.4	60.1	60.1	52.3
	66.2	63.8	57.7	52.2	46.3
	66.7	64.2	59.0	47.8	43.5
	61.3	61.0	59.1	52.3	48.5
	65.3	62.6	62.2	60.7	49.9
	69.1	67.4	59.9	49.1	52.0
	69.5	66.0	59.1	50.8	46.5
	59.7	67.2	62.6	48.2	53.5
Average value	65.5	64.8	60.0	52.7	49.1
Standard deviation	3.2	2.2	1.6	4.7	3.3
Sample	PLLGA	PLLGA/HAP	PLLGA/HAP-Lys	PLLGA/HAP-Lys/PEG600	PLLGA/HAP-Lys/PEG2100
Water contact angle [°]	62.1	59.1	53.0	54.6	50.2
	64.8	62.7	57.8	56.0	45.2
	62.8	57.7	60.5	52.2	42.6
	63.5	57.3	55.4	57.9	56.1
	63.6	70.1	58.7	57.6	45.3
	59.4	63.5	58.3	57.8	50.8
	61.6	60.5	56.7	56.8	51.6
	63.5	57.3	59.7	51.7	43.0

Average value	62.7	61.0	57.5	55.6	48.1
Standard deviation	1.5	4.1	2.3	2.3	4.5