

Electronic Supplementary Information

Interpolyelectrolyte Complexes Based on Hyaluronic acid-*b*- Poly(ethylene glycol) and Poly-L-lysine

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1. IPEC Stability on dilution and storage

Table S1. IPECs formed at 1 g/L total polymer concentration were measured after different times to study the stability of the complexes. Samples were kept at 0 °C between the 7 days and 4 months measurements.

HA- <i>b</i> -PEG	Size (D.I) after 24 h	Size (D.I) after 7 days	Size (D.I) after 4 months
HA _{6k} - <i>b</i> -PEG _{5k}	85 (0.08)	105 (0.14)	101 (0.18)
HA _{9k} - <i>b</i> -PEG _{5k}	47 (0.02)	48 (0.02)	----
	47 (0.03)	---	52 (0.02)
HA _{54k} - <i>b</i> -PEG _{5k}	105 (0.04)	122 (0.06)	120 (0.04)
	112 (0.04)	115 (0.07)	---

Table S2. IPEC solutions were diluted to *ca.* 0.1 g/L and DLS was measured after different times.

HA- <i>b</i> -PEG	Size (D.I) after 24 h	Size (D.I) after 24 h	Size (D.I) after 7 days	Size (D.I) after 4 months
HA _{9k} - <i>b</i> -PEG _{5k}	47 (0.02)	51 (0.04)	57 (0.05)	67 (0.05)
HA _{54k} - <i>b</i> -PEG _{5k}	112 (0.04)	111 (0.02)	114 (0.02)	120 (0.04)