

Electronic Supplementary Materials for

Click-Chemistry Cross-Linking of Hyaluronan Graft Copolymers

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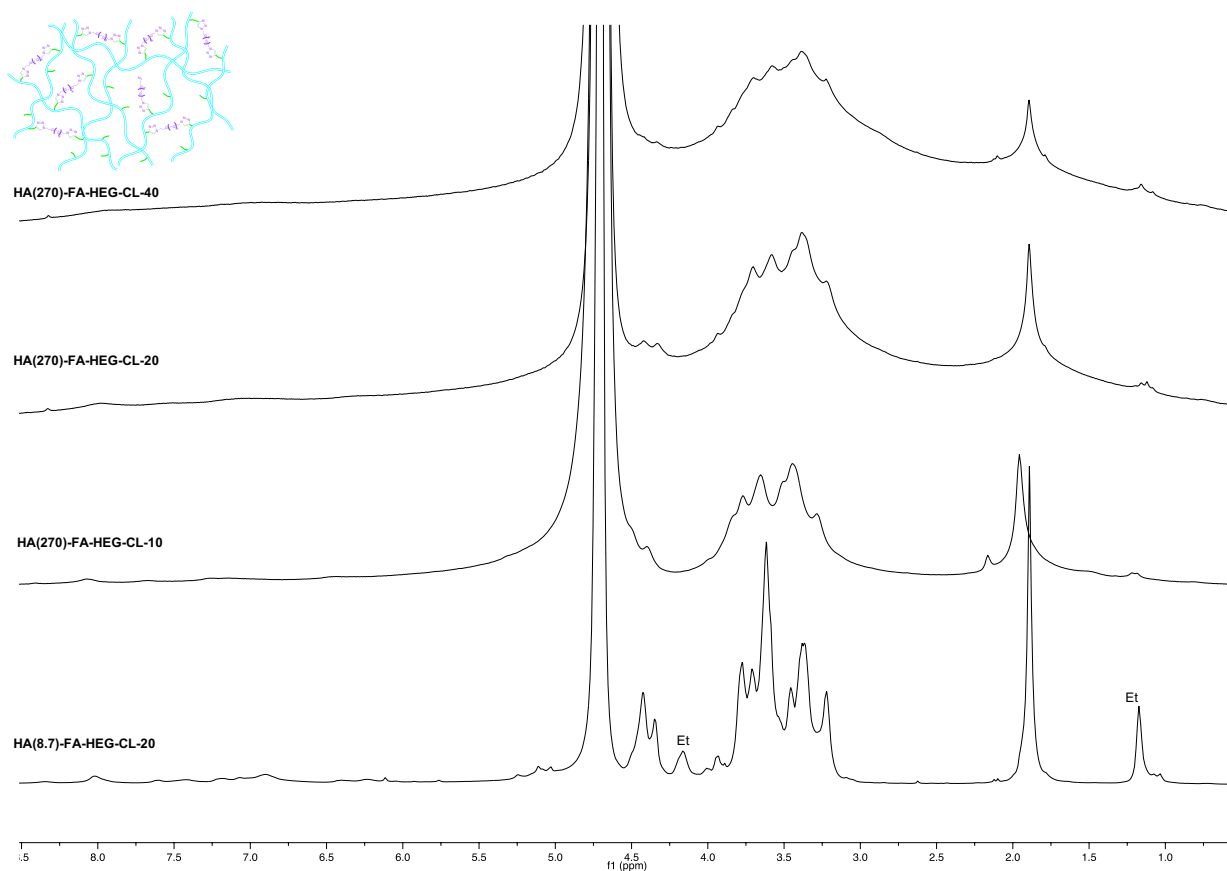


Figure S1. Comparison ¹H NMR spectra (D₂O, 600 MHz) obtained with the cross-linked materials **HA(8.7)-FA-HEG-CL-20**, **HA(270)-FA-HEG-CL-10**, **HA(270)-FA-HEG-CL-20**, **HA(270)-FA-HEG-CL-40**. In the

spectrum of **HA(8.7)-FA-HEG-CL-20**, “Et” labels indicate the signals of ethyl groups of the monomeric units with esterified carboxylic groups.

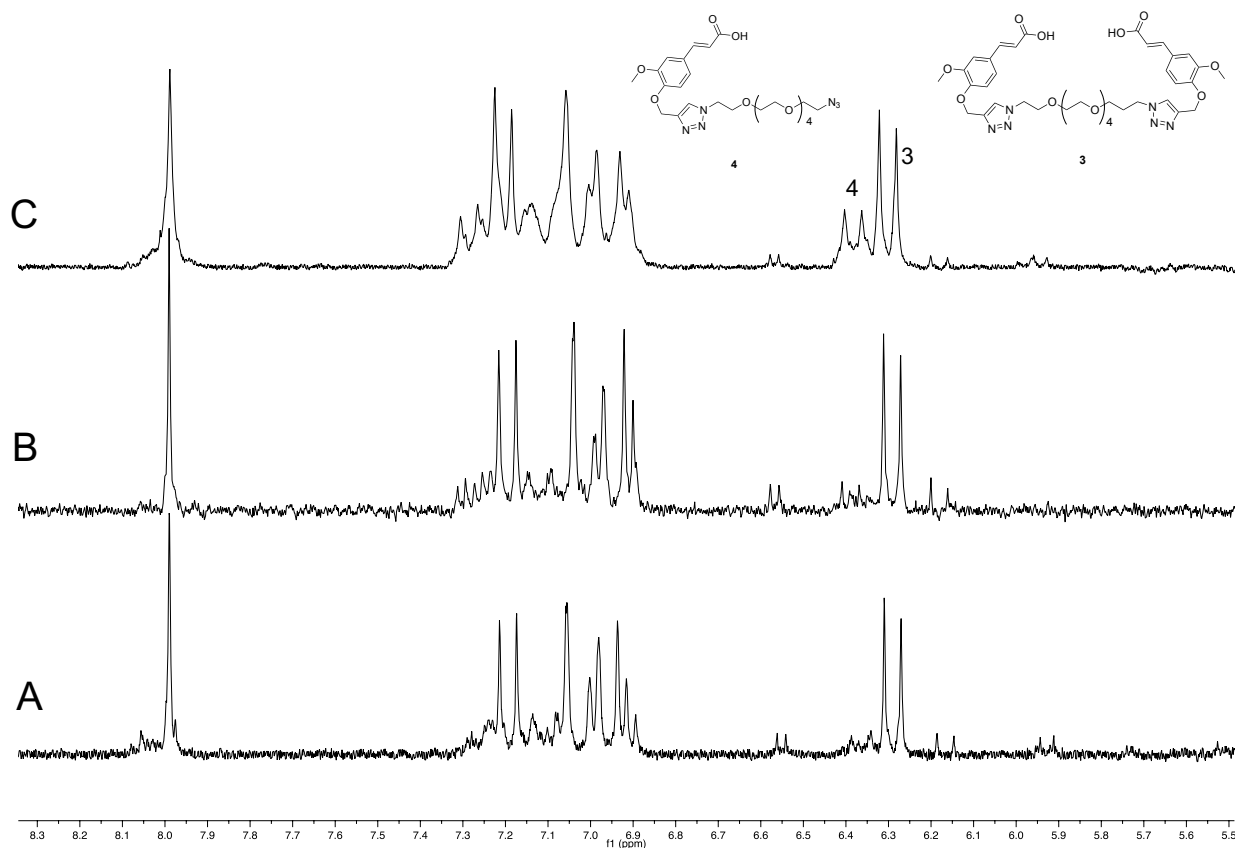


Figure S2. Comparison of the aromatic regions of ^1H NMR spectra (D_2O , 400 MHz) obtained with the cross-linked materials **HA(270)-FA-HEG-CL-10** (trace A), **HA(270)-FA-HEG-CL-20** (trace B), **HA(270)-FA-HEG-CL-40** (trace C) after hydrolysis with NaOD at room temperature for 10 min.

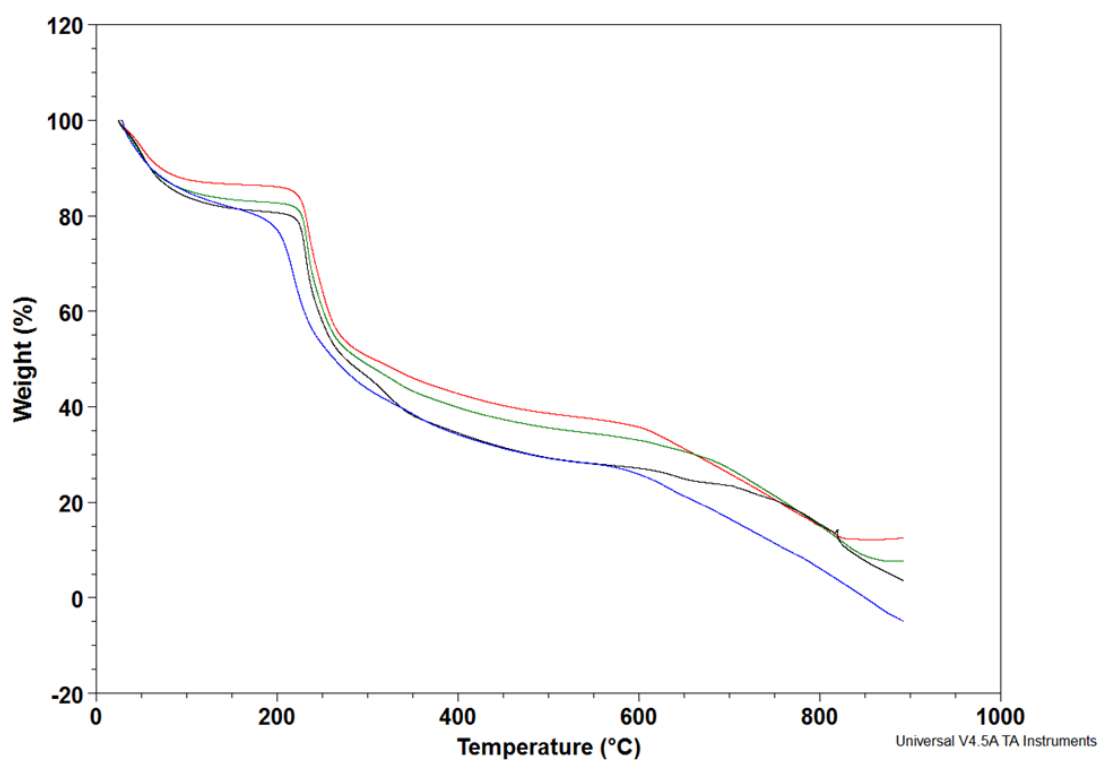


Figure S3. Thermographs of the hydrogels obtained with **HA(270)-FA-HEG-CL-20** (green), **HA(270)-FA-HEG-CL-40** (black), **HA(270)-FA-HEG-CL-10** (red), **HA(8.7)-FA-HEG-CL-20** (blue).

Table S1. Viscosity values of 1% w/v solutions at different shear rate (γ) values of **HA(270)-FA-Pg** and **HA(8.7)-FA-Pg-20** graft copolymers. Zero-shear viscosity (η_0) obtained applying Cross Model.

Sample	η ($\gamma = 0.01 \text{ s}^{-1}$)	η ($\gamma = 0.01 \text{ s}^{-1}$)	η_0	R^2
HA(270)-FA-Pg-10	4.6 ± 0.9	$7.8 \pm 0.4 \cdot 10^{-3}$	6.6 ± 0.3	1
HA(270)-FA-Pg-20	2.0 ± 1.0	$1.2 \pm 0.3 \cdot 10^{-2}$	2.9 ± 0.8	1
HA(270)-FA-Pg-40	8.8 ± 0.4	$2.3 \pm 0.4 \cdot 10^{-2}$	26.9 ± 0.8	1
HA(8.7)-FA-Pg-20	3.1 ± 0.2	$6.4 \pm 0.2 \cdot 10^{-4}$	1.4 ± 0.2	0.97