

Contents:

¹ H NMR spectrum of the crosslinked material HA(270)-FA-TEGEC-CL-10	page 2
¹ H NMR spectrum of the crosslinked material HA(270)-FA-HEGEC-CL-10	page 3
¹ H NMR spectrum of the crosslinked material HA(270)-FA-HEGEC-CL-40	page 4
Table of Z-average, PDI, and zeta-potential of all the crosslinked materials obtained	page 5

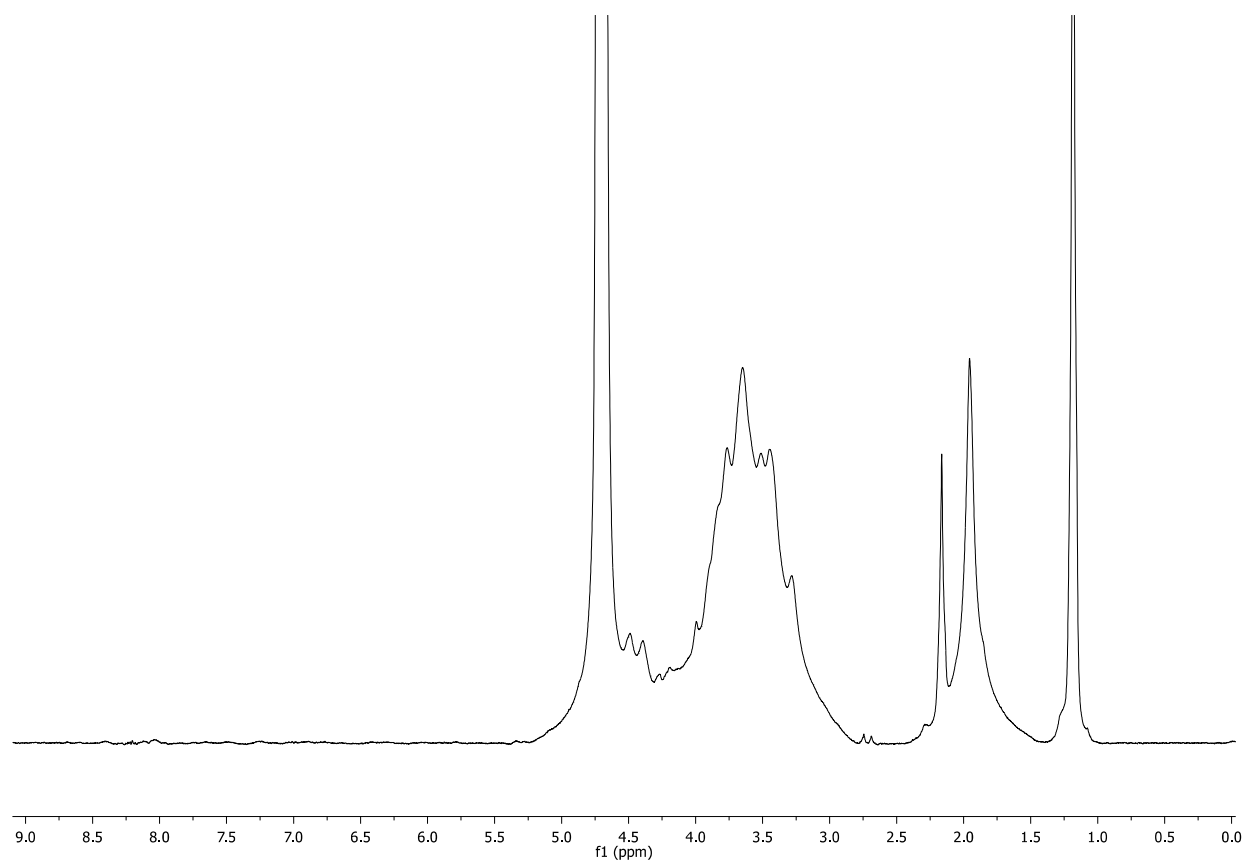


Figure S1. ^1H NMR (D_2O , 600 MHz) spectrum of the crosslinked material **HA(270)-FA-TEGEC-CL-10**.

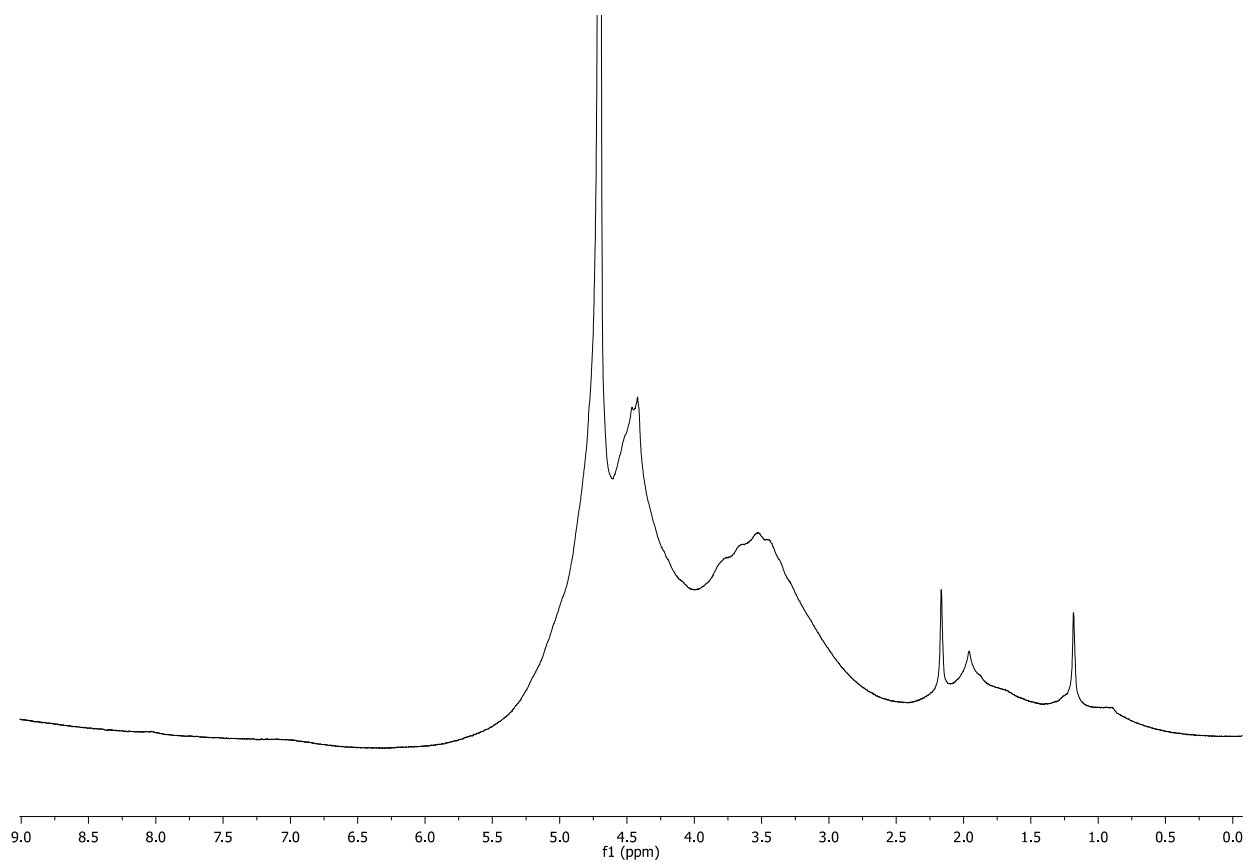


Figure S2. ^1H NMR (D_2O , 600 MHz) spectrum of the crosslinked material **HA(270)-FA-HEGEC-CL-10**.

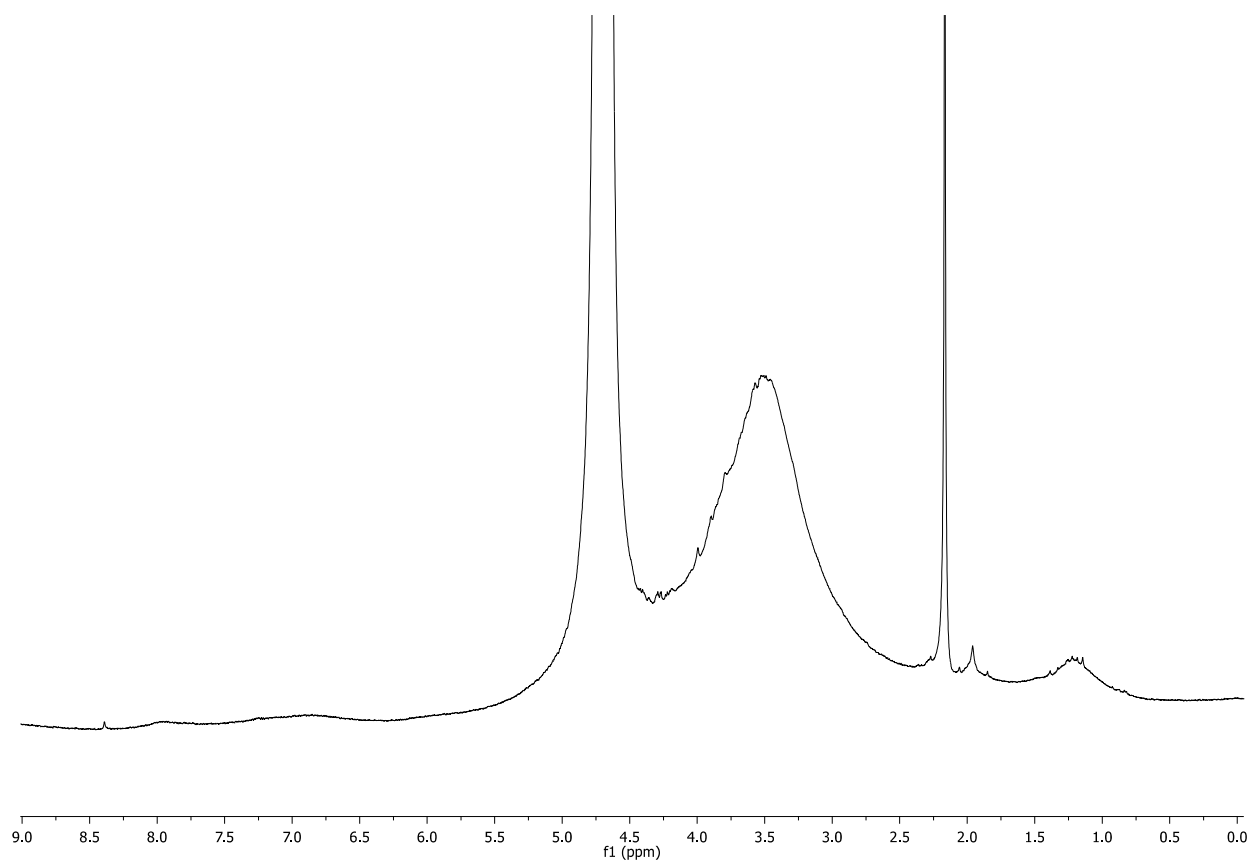


Figure S3. ^1H NMR (D_2O , 600 MHz) spectrum of the crosslinked material **HA(270)-FA-HEGEC-CL-40**.

Table S1. Z-average, PDI, and zeta-potential, of all the crosslinked materials produced (**HA(270)-FA-TEGEC-CL-10**, **HA(270)-FA-TEGEC-CL-20**, **HA(270)-FA-TEGEC-CL-40**, **HA(270)-FA-HEGEC-CL-10**, **HA(270)-FA-HEGEC-CL-20**, and **HA(270)-FA-HEGEC-CL-40**).

Sample	Z- average (nm)	PDI	Zeta potential (mV)
HA(270)-FA-TEGEC-CL-10	226.8 ± 15.8	0.312 ± 0.015	-41.4 ± 0.4
HA(270)-FA-TEGEC-CL-20	332.5 ± 22.6	0.338 ± 0.012	-39.1 ± 0.7
HA(270)-FA-TEGEC-CL-40	354.8 ± 25.8	0.456 ± 0.013	-35.8 ± 0.5
HA(270)-FA-HEGEC-CL-10	610.4 ± 19.5	0.240 ± 0.016	-41.6 ± 0.3
HA(270)-FA-HEGEC-CL-20	348.6 ± 18.4	0.279 ± 0.015	-41.5 ± 0.5
HA(270)-FA-HEGEC-CL-40	205.9 ± 28.7	0.247 ± 0.018	-36.5 ± 0.8