Supplementary Material (ESI) for Polymer Chemistry

ELECTRONIC SUPPORTING INFORMATION

Dual hydrophilic polymers based on (meth)acrylic acid and poly(ethylene glycol) – synthesis and water uptake behavior

Andreas Krieg,[a,c] Christian Pietsch,[a,c] Martin Hager,[a,c] C. Remzi Becer,*[a,b,c] Ulrich S. Schubert*[a,b,c]

Table S1. Assignment of the observed peaks in the MALDI-TOF mass spectra of the macro-CTA ($mPEG_{2k}$-CTA) and macro-initiator ($mPEG_{1k}$-Br) used for the P(EG-*b*-AA) synthesis.

	Structure	m/z calc	m/z found
mPEG-Br	$CH_3(C_2H_4O)_{19}C_4H_6O_2Br + Na^+$	1039.47	1039.45
		1040.47	1040.46
		1041.47	1041.45
		1042.47	1042.45
		1043.47	1043.45
mPEG-CTA	$CH_3(C_2H_4O)_{44}C_8H_{13}O_2S_3 + Na^+$	2212.17	2212.24
		2213.18	2213.24
		2214.18	2214.24
		2215.18	2215.24
		2216.18	2216.24

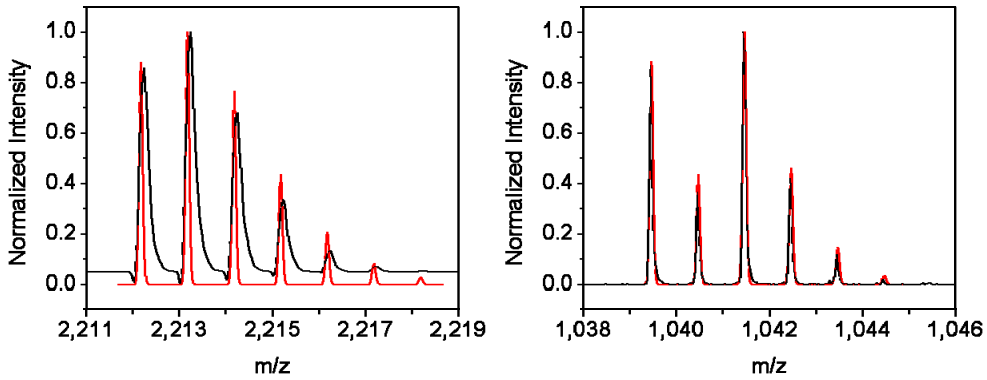

Figure S1. Overlay of calculated (—) and measured (—) isotopic pattern of $mPEG_{2k}$-CTA (*left*) and $mPEG_{1k}$-Br (*right*) used for the P(EG-*b*-AA) synthesis.

Table S2. Assignment of specific observed peaks in the MALDI-TOF mass spectrum and tandem MS spectrum of PAA (H1).

	Structure	m/z calc	m/z found
PAA	$C_3H_5O_2(C_3H_4O_2)_{12}C_5H_9S_3 + Na^+$	1125.26	1125.17
(H1)		1126.26	1126.18
		1127.26	1127.18
		1128.26	1128.17
H1 – H_2O	$C_3H_5O_2(C_3H_4O_2)_{10}(C_6H_6O_3)C_5H_9S_3 + Na^+$	1107.25	1107.65
		1108.25	1108.89
		1109.25	1110.27
H1 – CO_2	$C_3H_5O_2(C_3H_4O_2)_{11}(C_2H_4)C_5H_9S_3 + Na^+$	1081.27	1081.22
		1082.27	1082.31
		1083.27	1083.40
		1084.27	1084.53
H1 – Initiator	$H(C_3H_4O_2)_{12}C_5H_9S_3 + Na^+$	1053.24	1052.93
		1054.24	1054.00
		1055.24	1055.11
		1056.24	1056.21
H1 – Endgroup	$C_3H_5O_2(C_3H_4O_2)_{11}(C3H3O2) + Na^+$	959.26	959.11
		960.27	960.17
		961.27	961.22