

‘Novel Multi-responsive Microgels: Synthesis and Characterization Studies’

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Table S1. Number Average Molecular Weights (M_n), Copolymer Compositions, Molecular Weight Distribution (M_w/M_n) and Degrees of Polymerizations (DP) of PDPA-*b*-PMEMA Diblock Copolymers

Sample Code	M_n (g/mol, theory)	DPA content of the copolymer (mol %, theory)	M_n (g/mol)^a	M_w/M_n^a	DPA content of the copolymer (mol %)^b
VBI	12 000	80-20	14 800	1.06	81
VBII	22 000	80-20	26 500	1.07	80

^a As determined by GPC [calibrated with poly(methyl methacrylate) standards].

^b As determined by ¹H NMR spectroscopy using the GTP initiator fragment as an end group and relevant signals of both blocks.

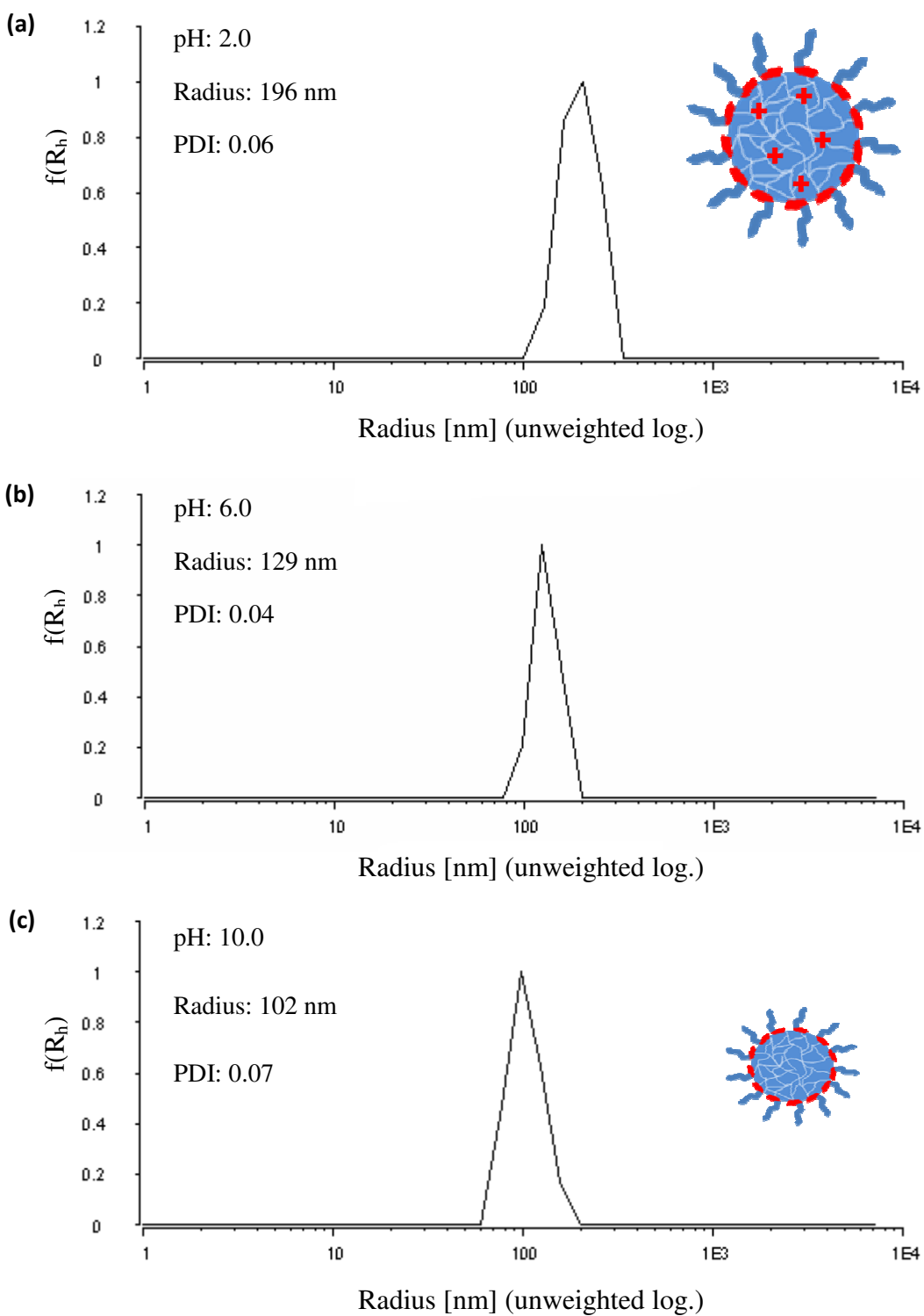


Figure S1. Hydrodynamic radius distribution of PMEMA microgel (VA7) at room temperature (a) pH 2.0, (b) pH 6.0, (c) pH 10.0

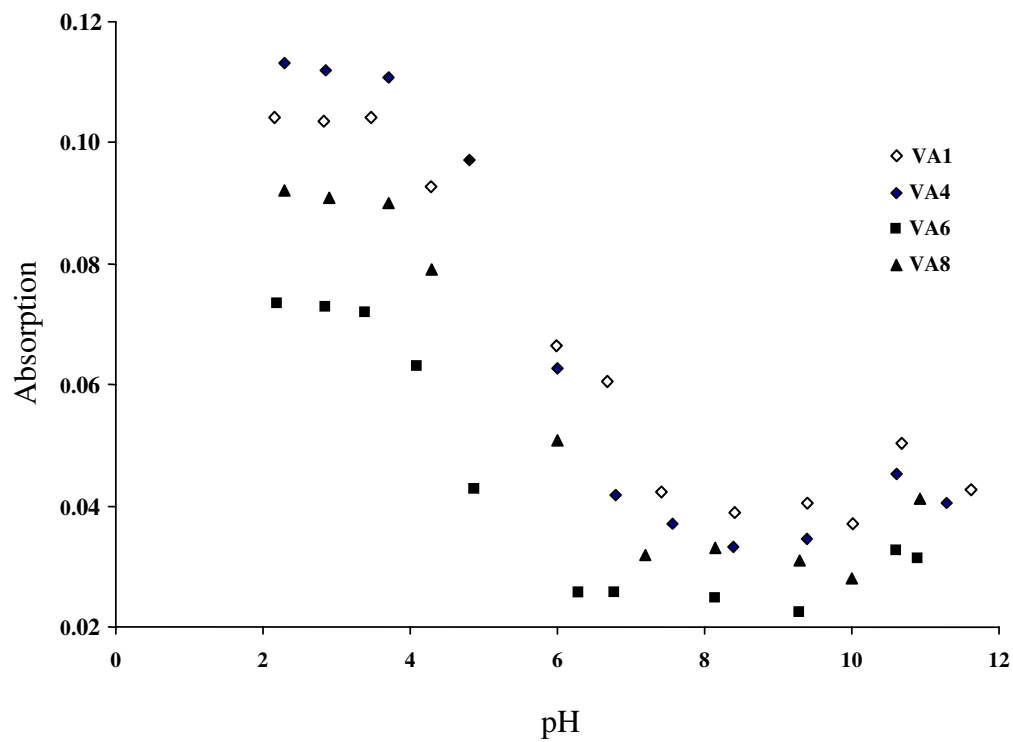


Figure S2. Variation of UV-absorption for PMEMA microgel dispersions with solution pH (VA1, VA4, VA6, and VA8).

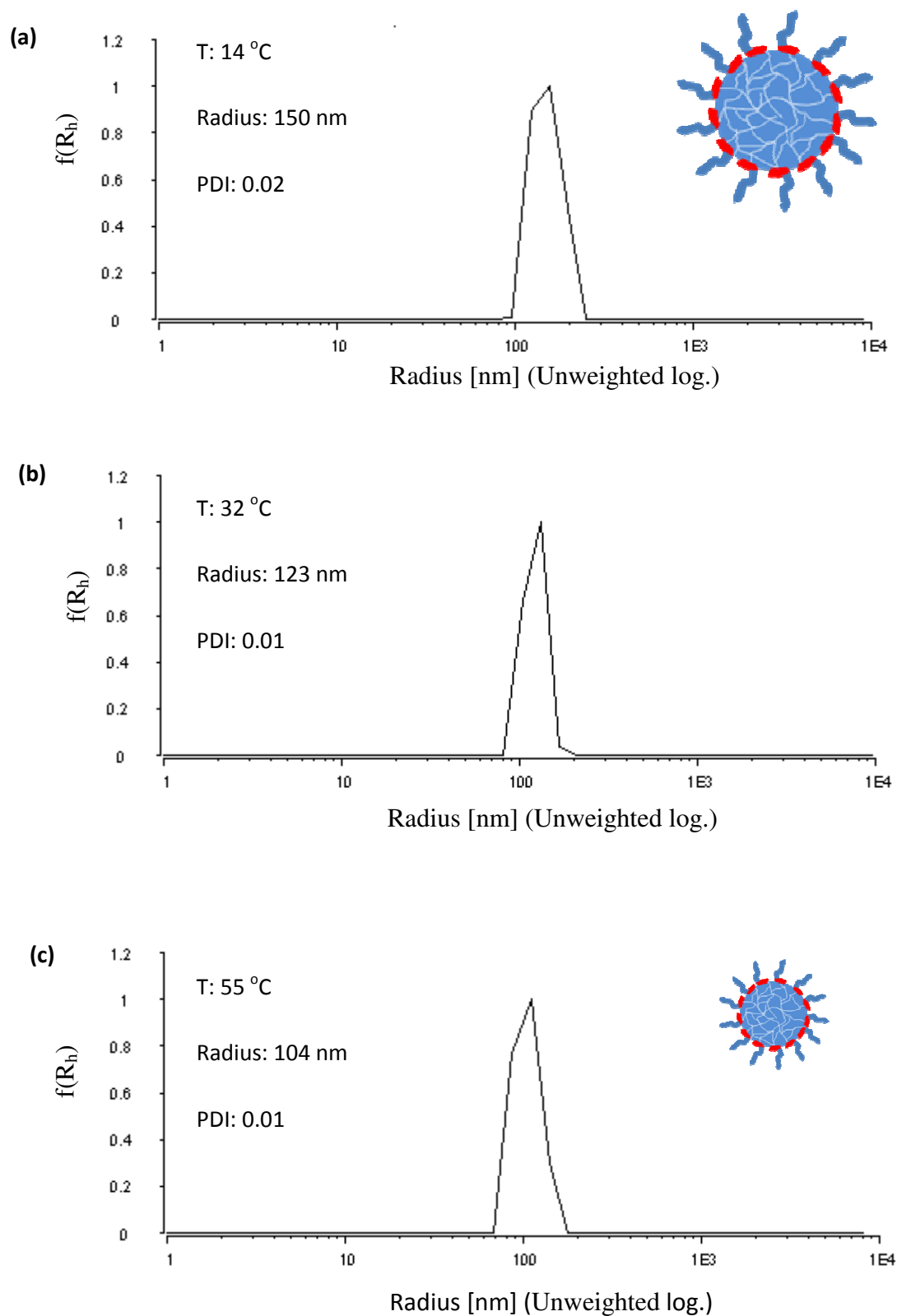


Figure S3. Hydrodynamic radius change of PMEMA microgel (VA8) as a function of temperature.

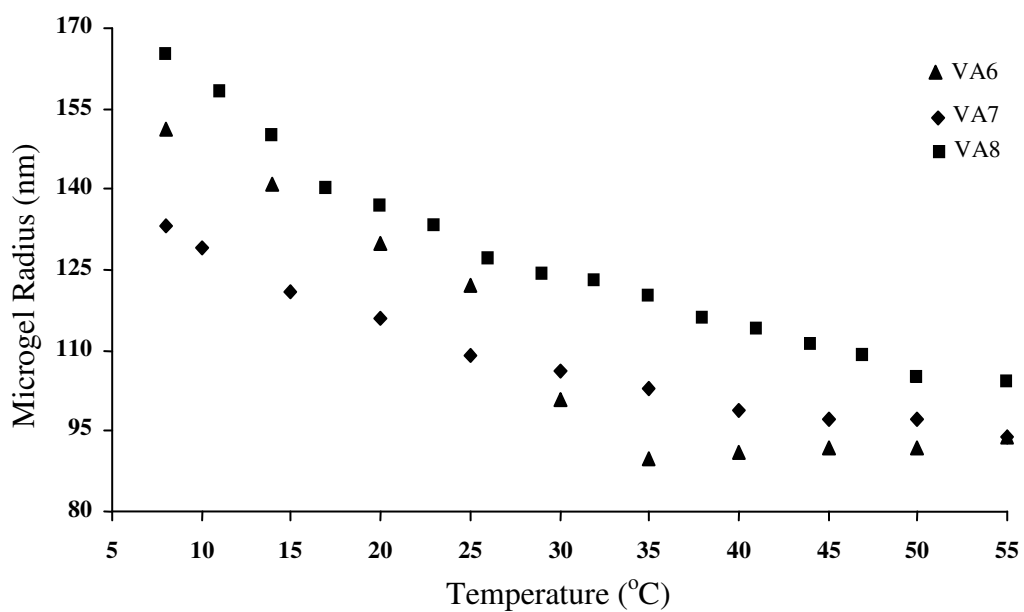


Figure S4. Changing hydrodynamic radius of PMEMA microgels as a function of temperature (VA6, VA7, VA8).

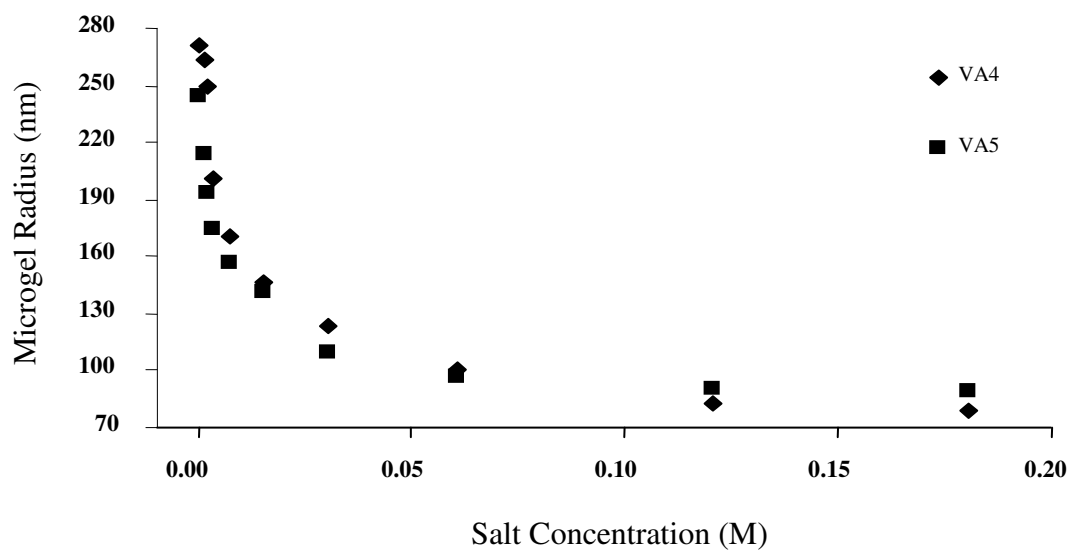


Figure S5. Variation of radius of PMEMA microgels (VA4, VA5) as a function of electrolyte (Na_2SO_4) concentration.

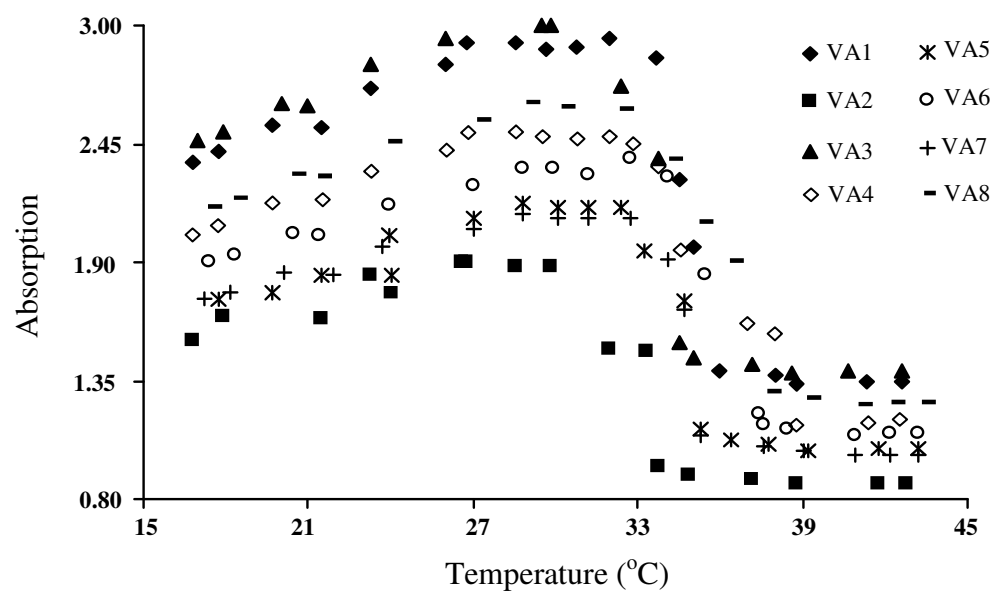


Figure S6. Variation of UV-absorption of PMEMA microgel dispersions with temperature.