

## Facile synthesis of temperature-sensitive ABA triblock copolymers by dispersion RAFT polymerization

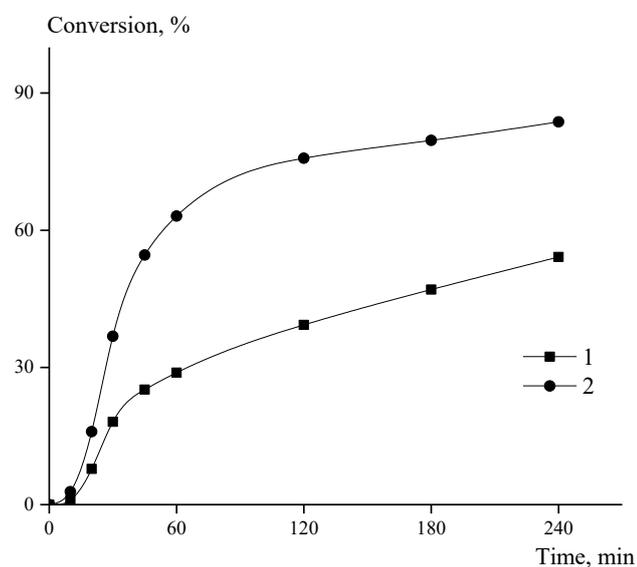
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### Additional experimental data

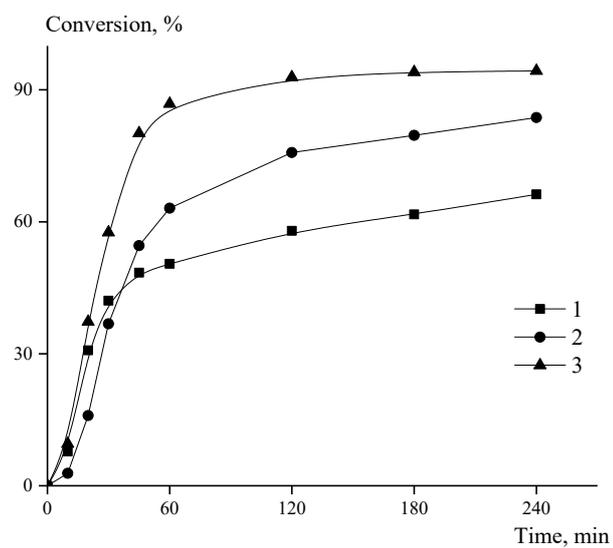
**Table S1** Synthesis conditions of macro-RAFT agents **1–3**.

Copolymer	Monomer feed			[AIBN]/ mol dm <sup>-3</sup>	[BTC]/m ol dm <sup>-3</sup>	V <sub>dioxane</sub> / cm <sup>3</sup>	NIPAM <sup>a</sup> /mole fraction in copolymer
	[NIPAM]/ mol	[AA]/ mol	[BA]/ mol				
<b>1</b>	0.08	0.009	-	1×10 <sup>-3</sup>	5×10 <sup>-2</sup>	10	0.89
<b>2</b>	0.07	0.022	-	1×10 <sup>-3</sup>	5×10 <sup>-2</sup>	9.4	0.74
<b>3</b>	0.08	-	0.009	1×10 <sup>-3</sup>	5×10 <sup>-2</sup>	10	0.91

<sup>a</sup> Mole content of NIPAM in copolymer was determined by elemental analysis using elemental analyzer EA1112 (CHNS) Thermo Finnigan Italia S.p.A. (Italy).



**Figure S1** Time dependence of monomer conversion in dispersion polymerization of BA mediated by macro-RAFT agent **3** in (1) water–methanol (1 : 4 v/v) and (2) methanol at 65 °C, BA/dispersion medium ratio of 1 : 7.5, macro-RAFT agent concentration of 3.8 wt% and AIBN concentration of 2 wt%.



**Figure S2** Time dependence of monomer conversion in dispersion polymerization of BA mediated by macro-RAFT agent **3** in methanol at 65 °C, BA/dispersion medium volume ratio (1) 1 : 15, (2) 1 : 7.5 and (3) 1 : 3, macro-RAFT agent concentration of 3.8 wt% and AIBN concentration of 2 wt%.