Supporting information

Influence of Polyol/Salt Additives on the Drug Mediated Phase Separation and Thermodynamic Properties of Triton X-100

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Table S1. The values of constants A, B & C assessed by reversion analysis of least square in different medium

Medium	C_{TX-100}	C_{CFH}	$C_{polyols}$	C_{salt}	A	B	C
	mmol.kg^{-1}		%	mmol.kg^{-1}			
H_2O	5.00-50.00	0	0	0	2359.8	14.219	-0.0215
	10	0.05-10.00	0	0	-103345	617.32	-0.922
	20	0.05-10.00	0	0	-98514	587.83	-0.877
H_2O+KCl	10	1	0	0.5-10.00	-58218	351.57	-0.5308
	20	1	0	0.5-10.00	-31364	190.14	-0.2882
H_2O+K_2SO_4	10	1	0	0.5-10.00	-169743	1021.6	-1.5373
	20	1	0	0.5-10.00	-78009	470.76	-0.7103
H_2O+$K_3PO_4.7H_2O$	10	1	0	0.5-10.00	1237.7	-6.8804	0.0094
	20	1	0	0.5-10.00	8216.6	-48.133	0.0704
H_2O+glucose	10	0	0.75-1.75	0	-32831	194.87	-0.2892
	10	1	0.75-1.75	0	2000000	9575.5	-14.377
H_2O+galactose	10	0	0.75-1.75	0	10667	-63.051	0.0931
	10	1	0.75-1.75	0	-50722	305.58	-0.4603
H_2O+maltose	10	0	0.75-1.75	0	-75621	449.05	-0.6667
	10	1	0.75-1.75	0	107096	-642.88	0.9647

Table S2. The values of different thermodynamic properties of transfer of clouding of 10.00 mmol.kg^{-1} TX-100 in absence/presence of CFH mixture in polyols medium

Medium	C_{CFH}	$C_{polyols}$	$\Delta G^o_{c,t}$	$\Delta H^o_{c,t}$	$\Delta S^o_{c,t}$
	mmol.kg^{-1}	% (w/w)	kJ.mol^{-1}		J.K^{-1}mol^{-1}
H_2O+glucose	0.00	0.75	-4.06	-574.62	-1687.83
		1.25	-5.53	-225.07	-654.52
		1.50	-6.06	-32.00	-82.94
		1.75	-6.54	417.23	1249.29
H_2O+glucose	1.00	0.75	-4.41	6570.68	19735.28
		1.25	-5.82	4719.32	14173.45
		1.50	-6.32	2071.81	6219.37
		1.75	-6.74	-48.48	-147.27
H_2O+galactose	0.00	0.75	-4.17	52.37	159.08
		1.25	-5.66	-153.02	-451.80
		1.50	-6.19	-228.22	-676.62
		1.75	-6.62	-224.81	-665.07
H_2O+galactose	1.00	0.75	-4.38	-738.54	-2224.36
		1.25	-5.82	-379.70	-1146.10
		1.50	-6.36	129.79	385.05
		1.75	-6.80	383.16	1149.08
H_2O+maltose	0.00	0.75	-2.30	-1017.00	-3008.66
		1.25	-3.78	-217.60	-641.56
		1.50	-4.30	9.70	33.44
		1.75	-4.72	-154.42	-451.61
H_2O+maltose	1.00	0.75	-2.61	208.36	611.72
		1.25	-4.01	553.91	1652.94
		1.50	-4.54	-157.68	-482.32
		1.75	-5.00	-954.13	-2878.78