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Electronic supplementary information (ESI)

Correlations between Temperature-Dependent Rheology and Electrostatic Interactions in Reverse Wormlike Micelles Induced by Inorganic Salts

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Table S1. Average length between two entanglement points l_e and average micellar length $\bar{L}$ at varying temperature estimated from the dynamic rheology.

(a) $LaCl_3$

Temperature (K)	l_e (Å)	G''_{min} (Pa)	$\bar{L}$ (Å)	Slope of $\bar{L}$ vs $1/T$
309.15	948	8.63	5024	
310.15	978	8.86	4813	
311.15	1006	8.82	4701	2.7 ± 0.3
312.15	1052	9.21	4375	
313.15	1103	9.78	3982	
314.15	1150	10.44	3620	

(b) $CaCl_2$

Temperature (K)	l_e (Å)	G''_{min} (Pa)	$\bar{L}$ (Å)	Slope of $\bar{L}$ vs $1/T$
300.15	1007	8.61	4658	
301.15	1050	8.88	4385	
302.15	1084	9.32	4084	3.3 ± 0.2
303.15	1116	9.91	3766	
304.15	1180	10.74	3335	
305.15	1233	11.09	3127	

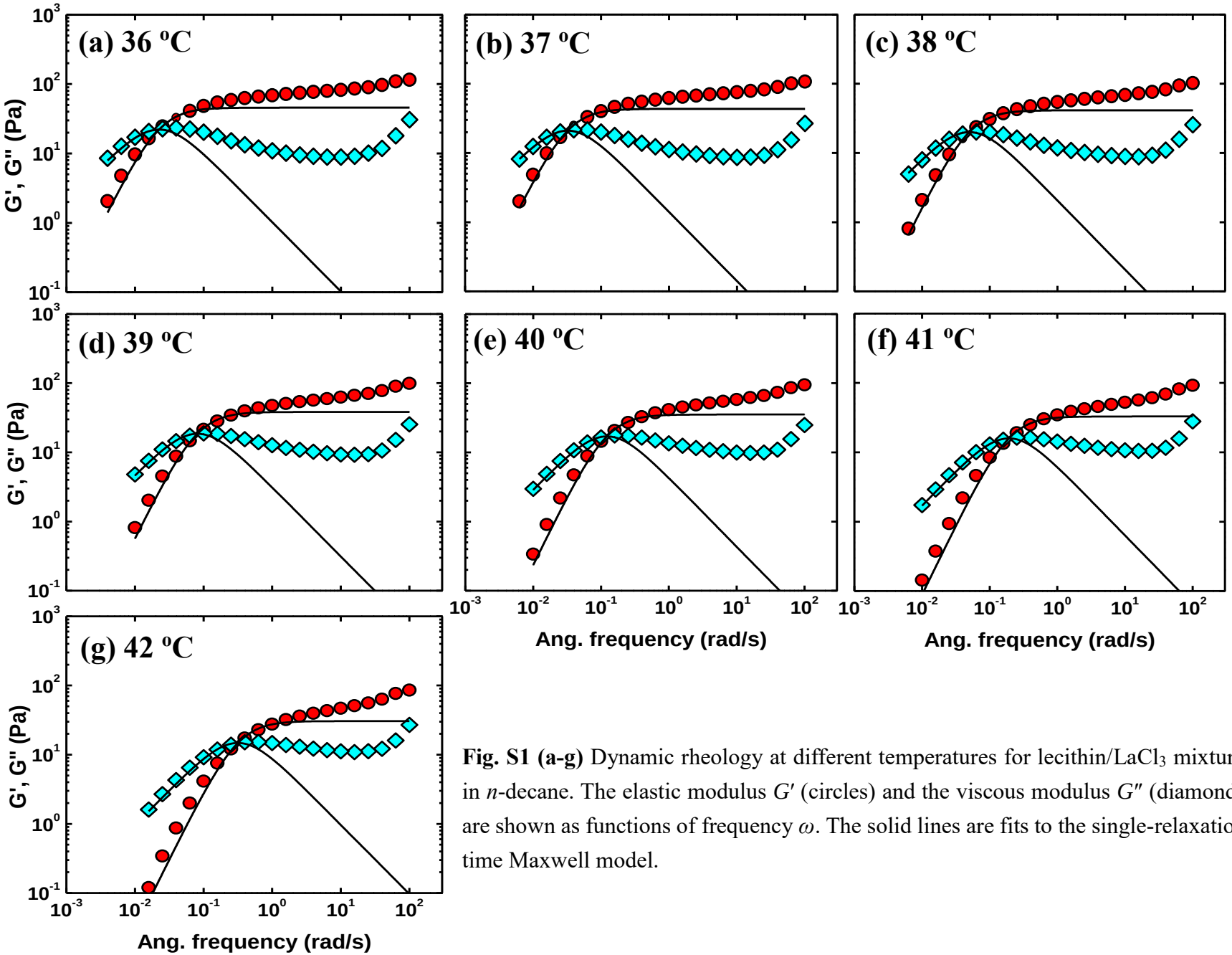

Fig. S1 (a-g) Dynamic rheology at different temperatures for lecithin/$LaCl_3$ mixtures in *n*-decane. The elastic modulus G' (circles) and the viscous modulus G'' (diamonds) are shown as functions of frequency ω. The solid lines are fits to the single-relaxation-time Maxwell model.

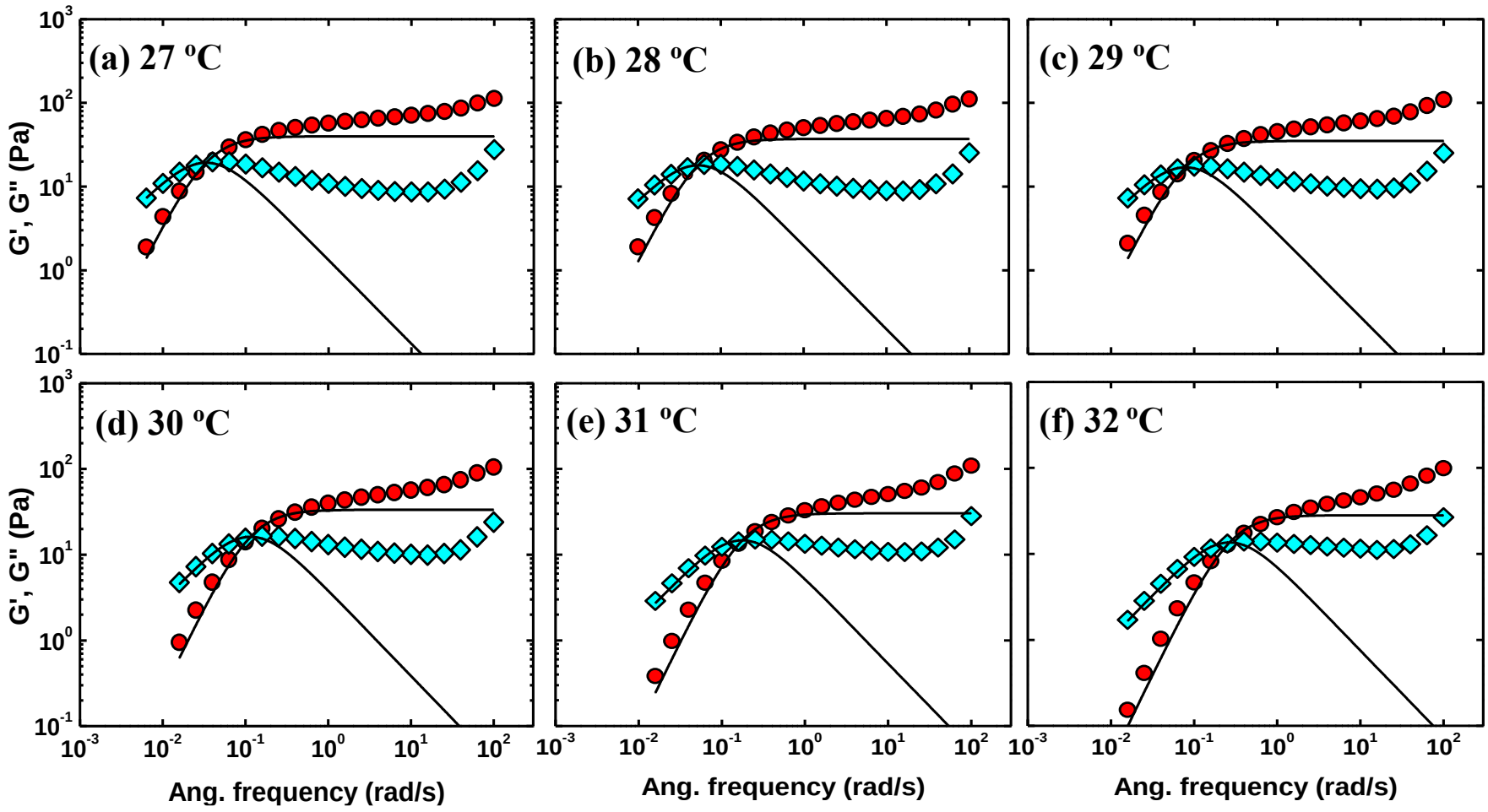

Fig. S2 (a-f) Dynamic rheology at different temperatures for lecithin/$CaCl_2$ mixtures in *n*-decane. The elastic modulus G' (circles) and the viscous modulus G'' (diamonds) are shown as functions of frequency ω. The solid lines are fits to the single-relaxation-time Maxwell model.

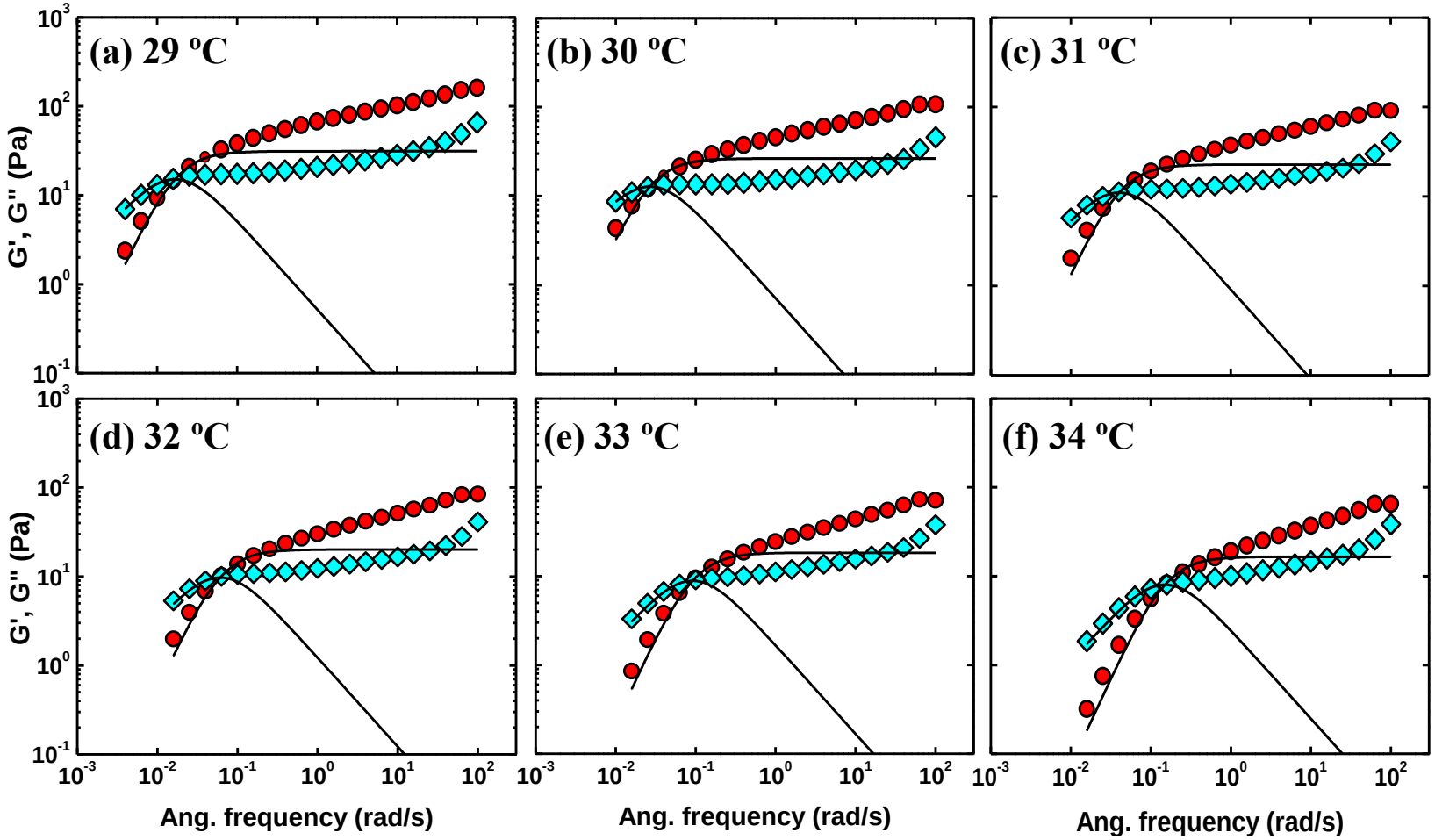

Fig. S3 (a-f) Dynamic rheology at different temperatures for lecithin/LiCl mixtures in *n*-decane. The elastic modulus G' (circles) and the viscous modulus G'' (diamonds) are shown as functions of frequency ω. The solid lines are fits to the single-relaxation-time Maxwell model.

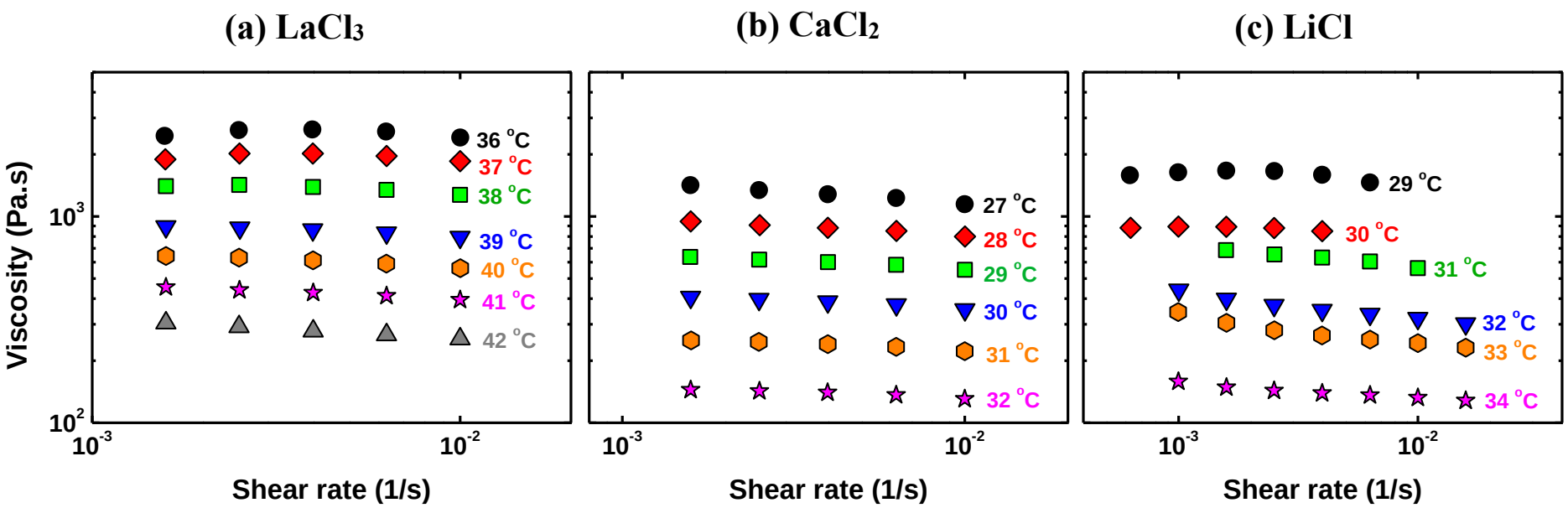

Fig. S4 (a-c) Steady-shear tests at different temperature for lecithin/inorganic salt mixtures in *n*-decane. Only the regions of the zero-shear viscosity η_0 are shown.

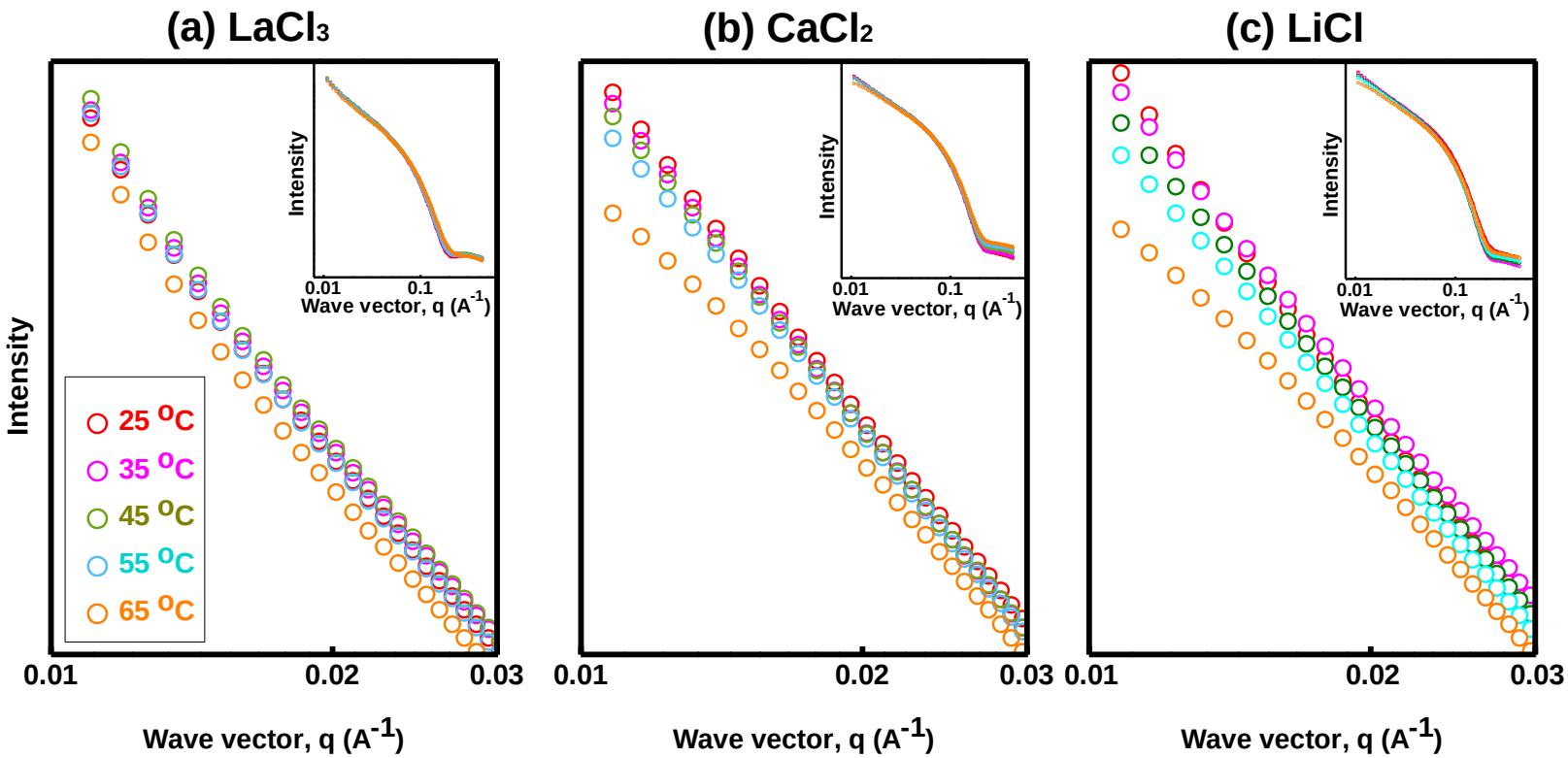

Fig. S5 (a-c) Overlapped SAXS curves at varying temperatures to more clearly show the changes in the slopes in low-*q* range for lecithin/inorganic salt mixtures in *n*-decane. The insets are the whole SAXS profiles.