

## Influence of Temperature and Additives (Glucose/Urea) on the Antidiabetic Drug-Mediated Micellization of CTAB

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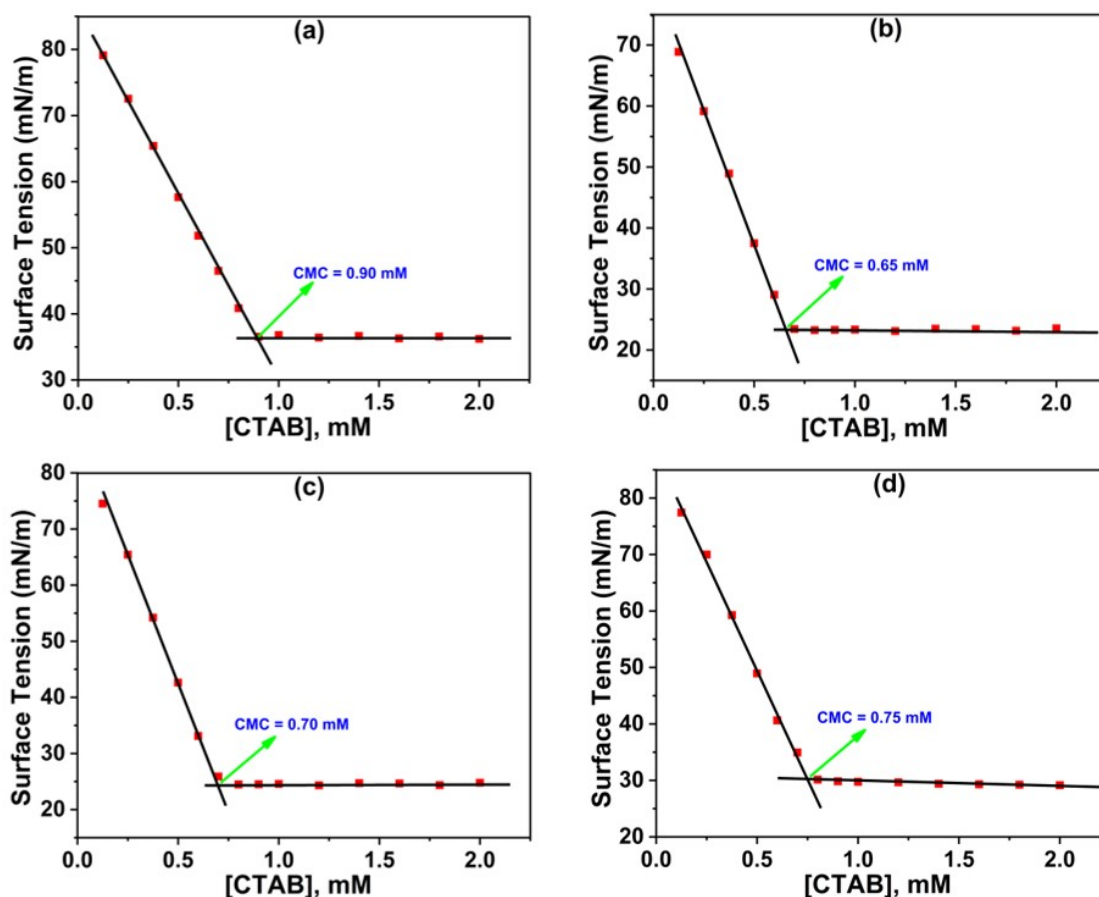
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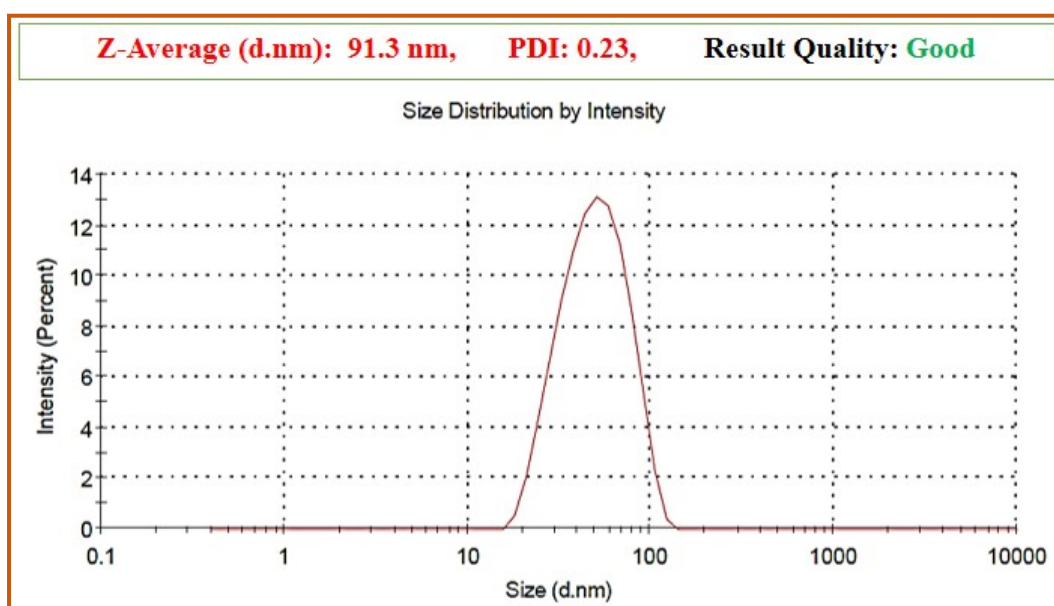
### Supporting information

**Table S1.** Effect of [MHC] on the CMC and  $\alpha$  of the CTAB in different solvent media at 298 K

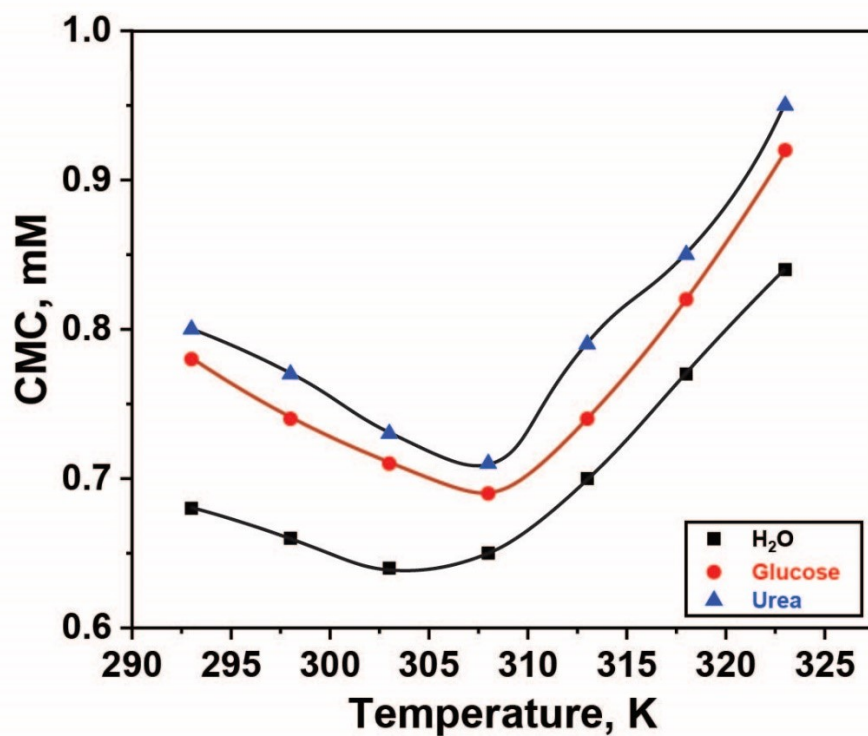
[MHC], mM	Water		Glucose (10 mM)		Urea (300 mM)	
	CMC, mM	$\alpha$	CMC, mM	$\alpha$	CMC, mM	$\alpha$
0.0	0.91	0.31	0.94	0.34	0.99	0.36
0.5	0.82	0.30	0.86	0.33	0.9	0.35
1.0	0.76	0.30	0.81	0.31	0.87	0.34
2.0	0.66	0.28	0.74	0.29	0.77	0.34
3.5	0.57	0.27	0.62	0.29	0.68	0.32
5.0	0.52	0.26	0.58	0.28	0.62	0.30



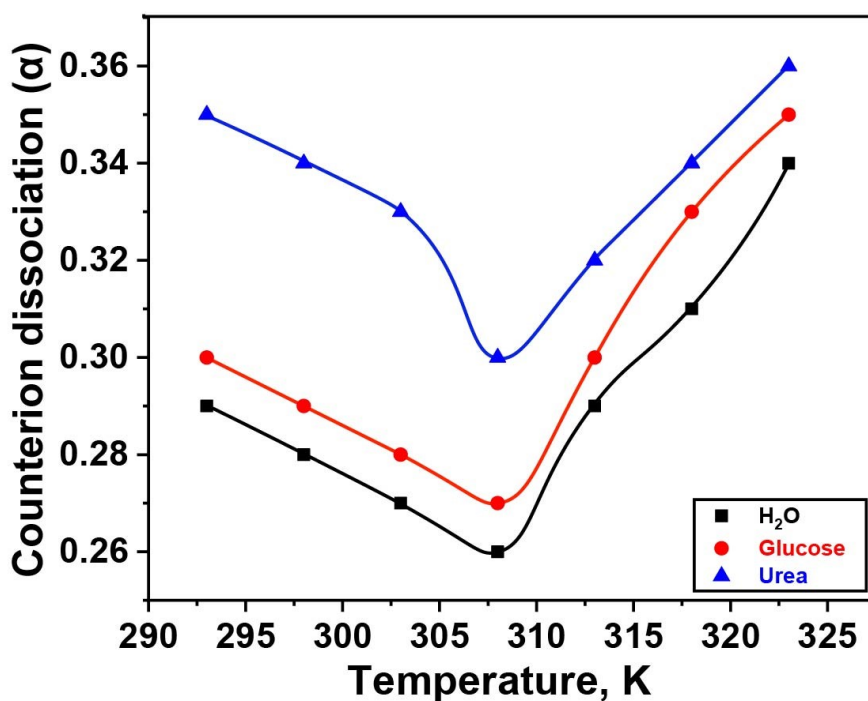
**Fig. S1.** Plots of surface tension versus [CTAB] at 298 K (a) Pure CTAB; (b) CTAB – MHC; (c) CTAB–MHC system in 10 mM glucose; (d) CTAB–MHC system in 300 mM urea. Keeping [MHC] = 2.0 mM for all the [surfactant-drug] mixed system



**Fig. S2.** The size (d) of micellar nanoaggregates, as determined by DLS technique, of CTAB-MHC mixed system; [CTAB] = 1.2 mM and [MHC] = 5.0 mM.



**Fig. S3.** Influence of temperature on the CMC of CTAB–MHC system in aqueous, glucose (10 mM), and urea (300 mM) media



**Fig. S4.** Influence of temperature on the counterion dissociation of CTAB–MHC system in aqueous, glucose (10 mM), and urea (300 mM) media