

**Fabrication of metalosomes (metal containing cationic liposomes) using single chain surfactant as precursor via formation of inorganic organic hybrids**

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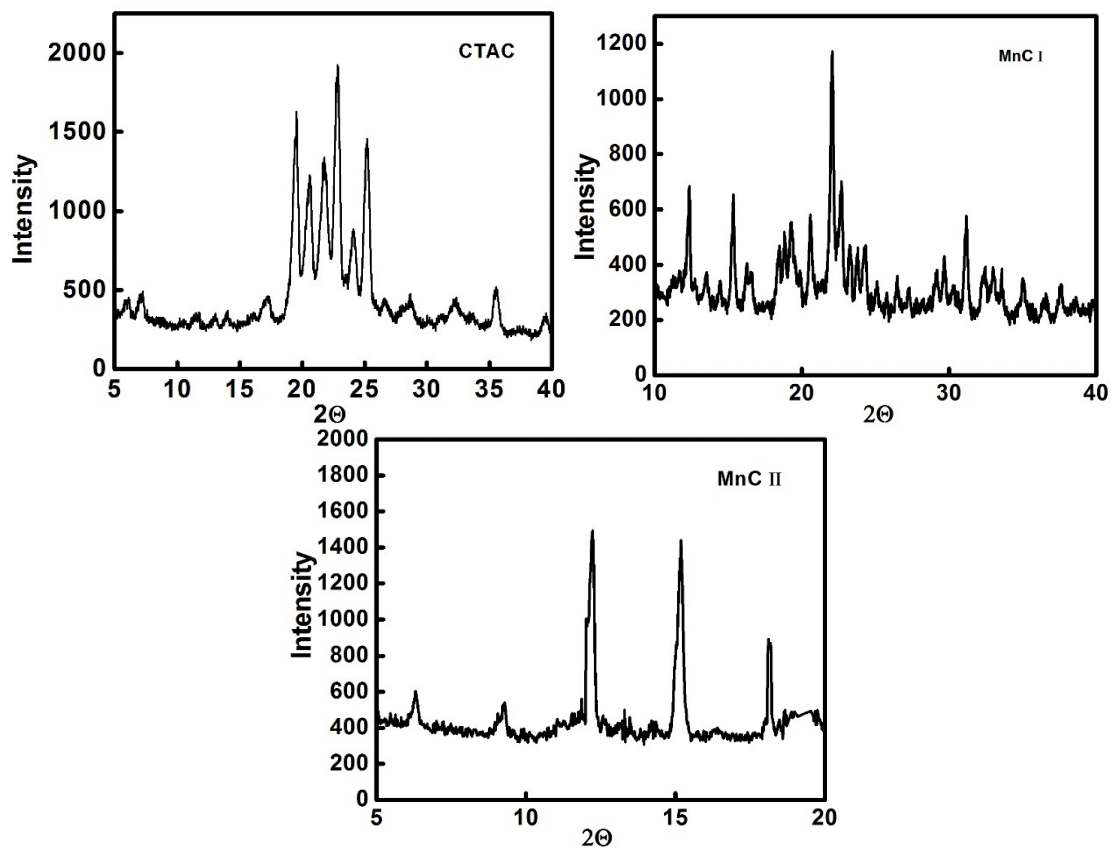
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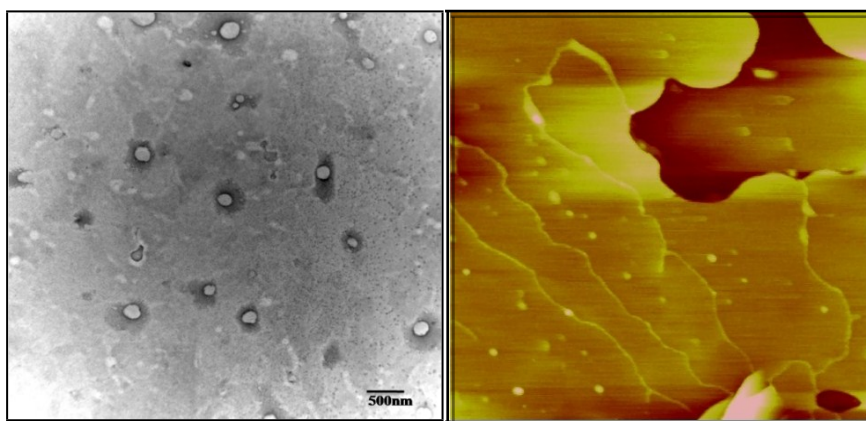
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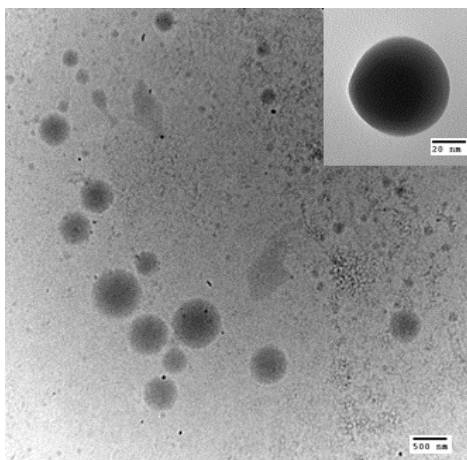
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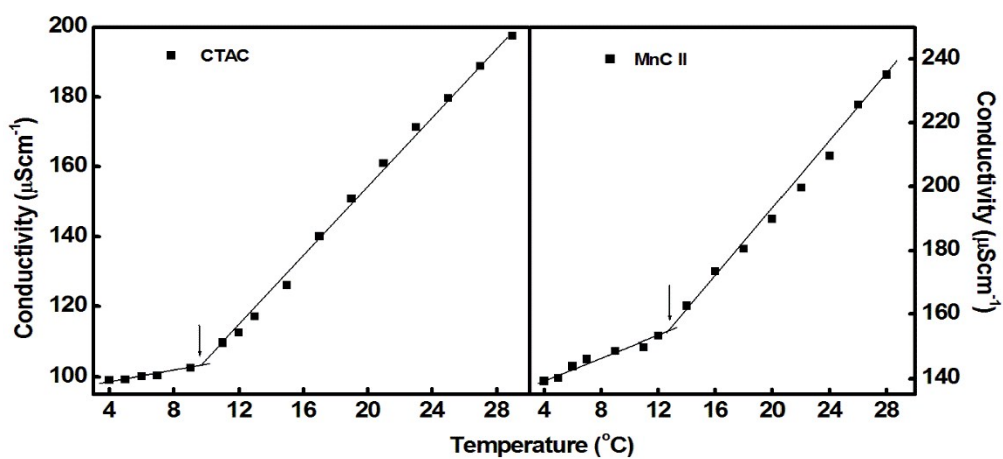
**Figure ES1.** XRD of CTAC, MnC I and MnC II in powder form.



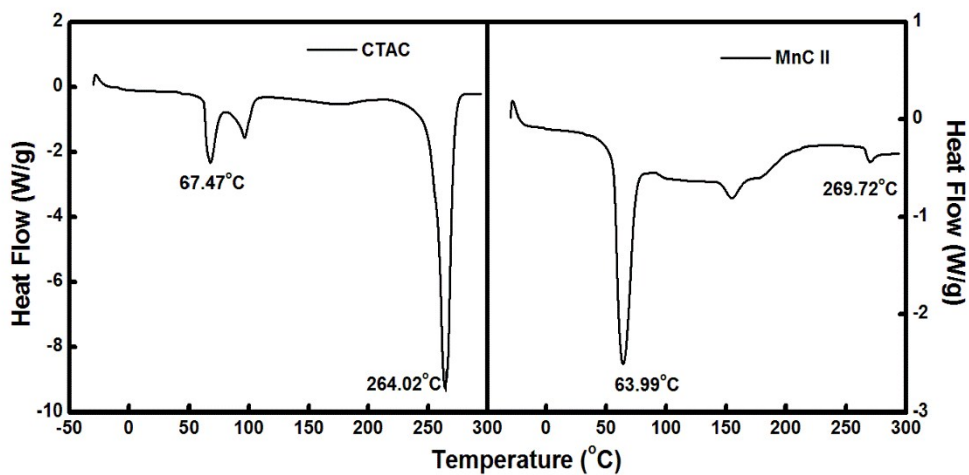
**Figure ES2.** TEM and AFM of reverse vesicle in propanol.



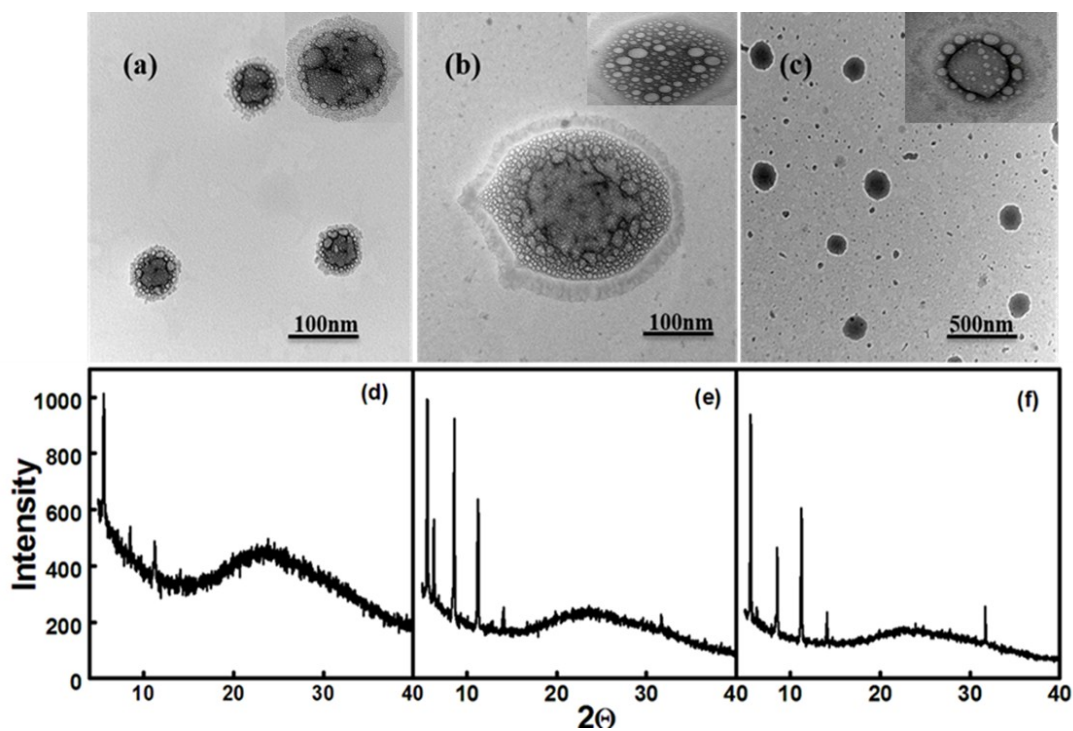
**Figure ES3.** TEM of Mn-somes prepared from MnC-I (single chain metallosurfactant)



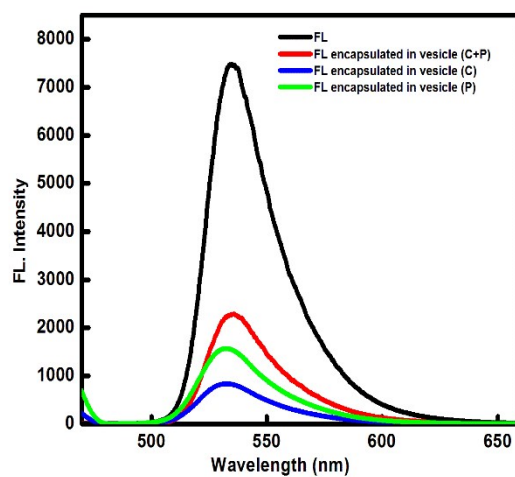
**Figure ES4.** Plots depicting Krafft temperature of CTAC and MnC II.



**Figure ES5.** DSC curves of CTAC and MnC II complex.



**Figure ES6.** TEM and XRD of vesicle formed without cholesterol in (a) chloroform (b) chloroform + propanol (c) propanol.



**Figure ES7.** Emission spectra of FL in Mn-somes system.

**Table ES1.** Hydrodynamic diameter with PDI of Mn-somes in different solvent with and without cholesterol

Vesicle of MnC II	Hydrodynamic diameter (PDI)			
	1 <sup>st</sup> day	3 <sup>rd</sup> day	5 <sup>th</sup> day	7 <sup>th</sup> day
Chloroform	223.5 (0.110)	337.1 (0.506)	344.8 (0.750)	390.1 (0.908)
Propanol	314.1 (0.257)	383.6 (0.321)	450.2 (0.456)	478.3 (0.268)
Chloroform +Propanol	450.6 (0.509)	443.7 (0.176)	468.5 (0.575)	486.2 (0.580)
<b>Without Cholesterol</b>				
Chloroform	400.4 (0.299)	569.1 (0.851)	789.8 (0.938)	901.6(0.935)
Propanol	459.2 (0.364)	550.1 (0.431)	634.2 (0.951)	1089 (0.924)
Chloroform +Propanol	520.7 (0.276)	781.1 (0.045)	891 (0.911)	1086 (0.792)