## Electronic Supplementary Immaterial (ESI)

## Synthesis of surfactant assisted zero-dimensional iron nanomaterials for cellobiose

## hydrolysis

## A Table of content entry

Table S1: Comparing results of few different nanomaterials synthesized using the same method for cellobiose hydrolysis at 120  $^{0}C$ 

Nanomaterials	Calcination	%Conversion	%Yield of	%Yield of
	temp/ <sup>0</sup> C		Glucose	HMF
FeCl <sub>3</sub>	400	40	40	-
FeCTB-200	200	50	50	50
FeCTB-300	300	60	60	40
FeCTB	400	80	40	60

Table S2: Hydrolysis of cellobiose over FeCTB nanomaterial at different temperature

Nanomaterials	Reaction	%Conversion	%Yield of	%Yield of
	temperature / <sup>0</sup> C		Glucose	HMF
FeCTB	120	80	40	60
FeCTB	200	80	30	70
FeCTB	250	85	30	70



gure S1: Particle size distribution of FeCTB by dynamics light scattering (DLS)



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Figure S2: Ammonia Temperature Program Desorption (NH<sub>3</sub>-TPD) of FeCTB up 600 <sup>o</sup>C.



Figure S3: The H<sub>2</sub>-TPR profile of FeCTB nanomaterial up 800 °C.



Figure S4: The UV-Visible spectrum of hydrolyzed product of cellobiose