

## Supporting Information

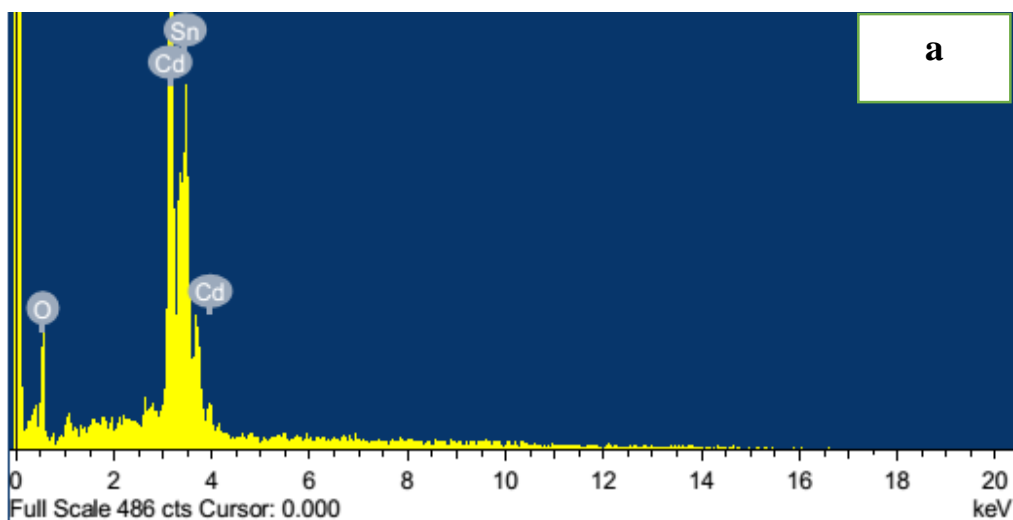
### Non-enzymatic electrochemical detection of glucose and ammonia using ternary bio-nanocomposites

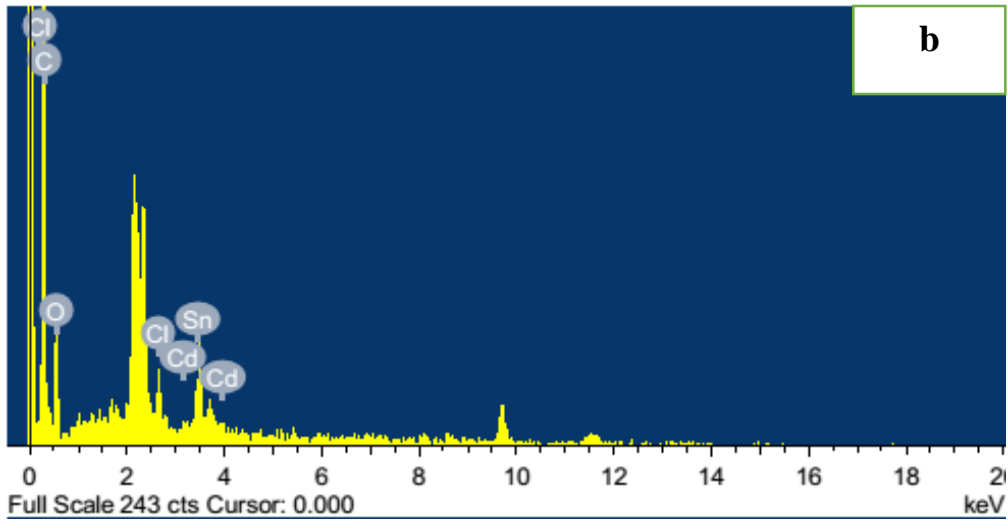
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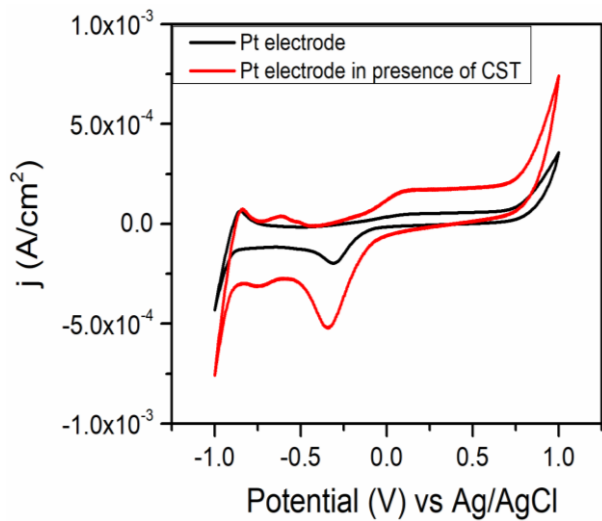
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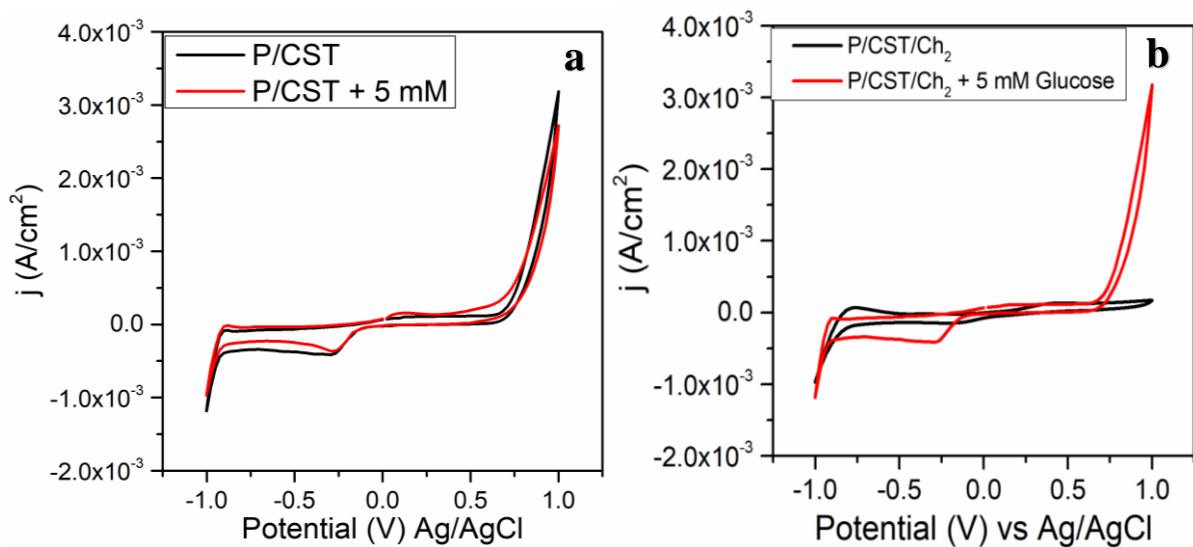


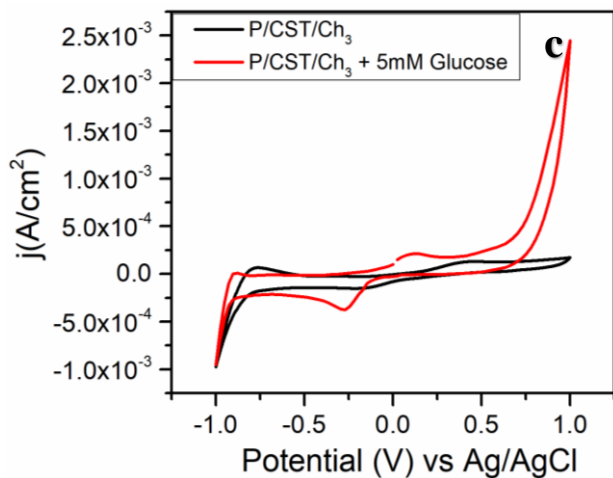


**Fig. S1.** EDAX spectra showing elemental composition of (a) CST nanoparticles (b) P/CST/Ch<sub>1</sub> bio-nanocomposites

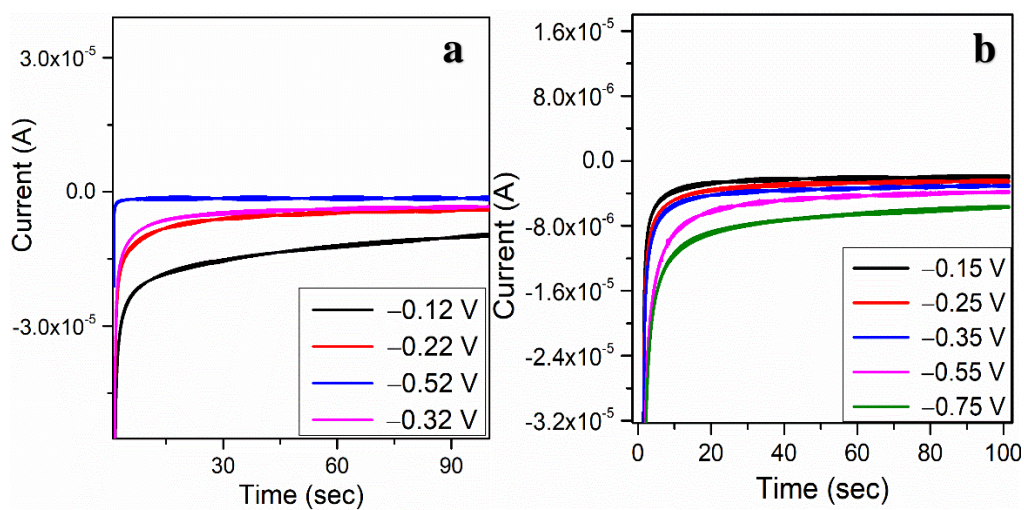


**Fig. S2.** Cyclic voltammograms of CST nanoparticles as electrocatalyst





**Fig. S3.** (a, b, c) Cyclic voltammetry plot of different nanocomposites as electrocatalyst with presence and absence of glucose in 0.1 M NaOH solution



**Fig. S4.** (a) Chronoamperogram of P/CST/Ch<sub>1</sub> bio-nanocomposites as electrocatalyst at varying potential ranging from  $-0.12$  to  $-0.52$  V in presence of glucose and (b) for  $-0.15$  to  $-0.75$  V in presence of aqueous ammonia.