

## **Voltammetric Method for Fe (III) in Blood Serum using Screen Printed Electrode modified with a Schiff Base ionophore**

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**Figure S1.** Anodic differential pulse voltammogram obtained in 0.1 M of different electrolytes using measurement parameters: step size 10 mV, sample period 0.5 s, pulse time 0.1 s and pulse size 50 mV. Ag/AgCl was used as a reference electrode. Spline fitting has been used to draw graph.

**Figure S2.** Cyclic voltammograms showing anodic and cathodic peaks recorded in HCl (0.1 M) electrolyte on SMS-2 modified SPE at different scan rates: 20, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150 mVs<sup>-1</sup>. (Ag/AgCl as a reference electrode and HCl (0.1 M) as electrolyte) and graph was drawn using Spline fitting.

**Figure S3.** Differential pulse voltammetry of SMS-2 modified SPE showing analytical signals obtained during anodic scan in the presence of different metal ions (10 µL of 1×10<sup>-2</sup> M), recorded using HCl (0.1 M) as supporting electrolyte and DPV parameters: step size 10 mV, sample period 0.5 s, pulse time 0.1 s and pulse size 50 mV. Ag/AgCl was used as a reference electrode and Spline fitting has been used to draw graph.

**Figure S4.** Anodic differential pulse voltammogram recorded on SMS-2 modified SPE for different concentrations of ferric ions (0.0 to 8.33 µM) obtained using HCl (0.1 M) supporting electrolyte. Ag/AgCl used as a reference electrode and DPV parameters: step size 10 mV, sample period 0.5 s, pulse time 0.1 s and pulse size 50 mV. Graph was drawn using Spline fitting.

Figure S1

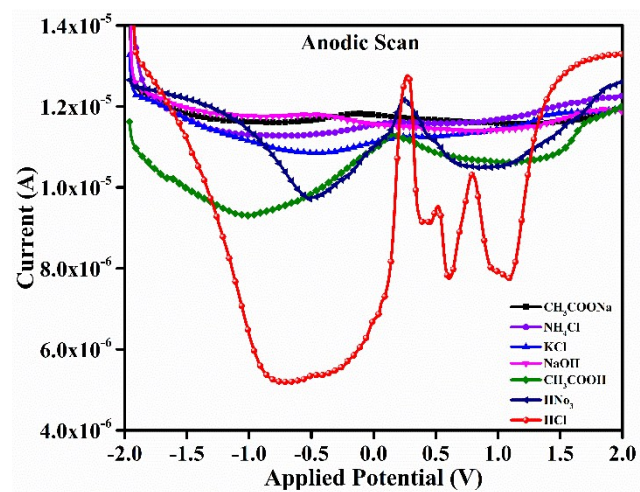


Figure S2

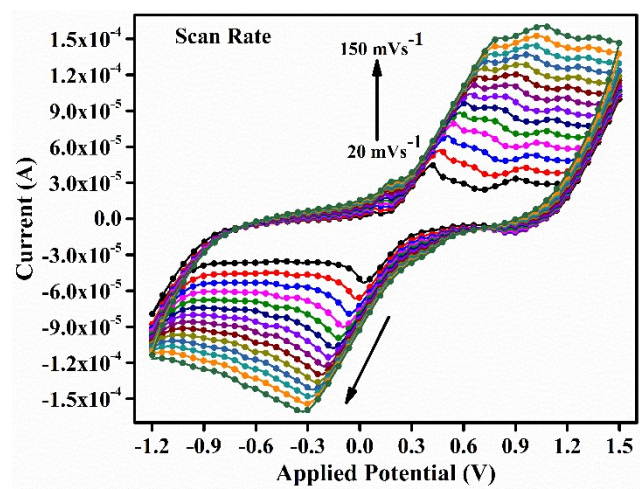


Figure S3

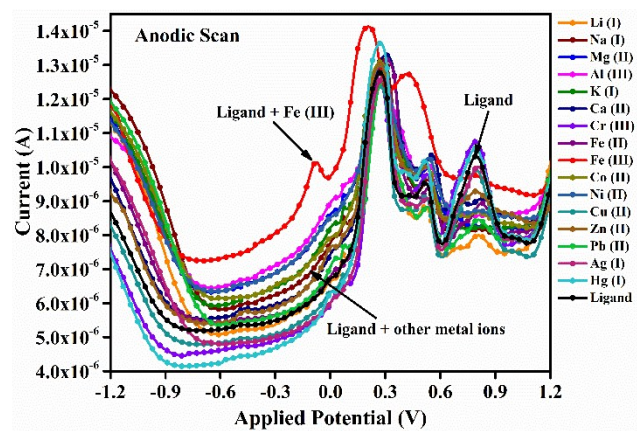


Figure S4

