Supporting Information

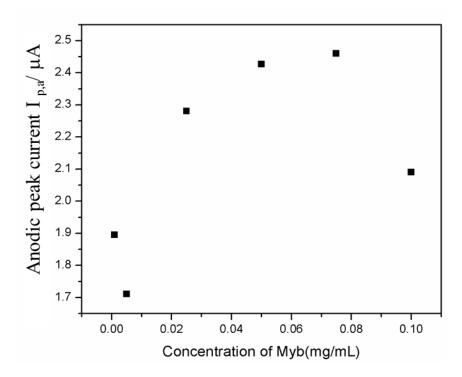


Figure 1: The plot of anodic peak current $(I_{p,a})$ vs concentration of Mb with degussa P-25 modified (Ti-NP) modified GCE

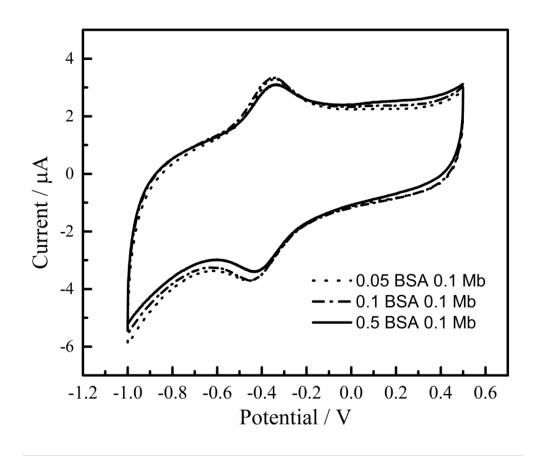


Figure 2: Cyclic voltammogram of Bovine serum albumin (BSA) with its concentration varying between 0.05-0.5 mg ml⁻¹ using a fixed concentration of Mb (0.1 mg ml⁻¹) in a solution of 3.5 M GdnHCl.

Table 1. showing the comparison between the various reported immunosensors for Mb and Ti-NT based sensor demonstrated here.

Material constituting the biosensor	Detection limit	Ref no
Polyaniline nanowire modified electrode	1.4 ng/ml	1
Screen printed electrodes modified with anti-myoglobin antibody	85 ng/ml	2
Methylene blue-multiwalled carbon nanotube hybrid electrode	0.3 ng/ml	3
metal nanoparticles stabilized by didodecyldimethylammonium bromide and antibodies	5-10 ng/ml	6(in manuscript), 4
Ti-NT based sensor	1000 ng/ml	

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