Supporting Information

Fabrication of graphene nanosheets-multiwalled carbon nanotubes-polyaniline modified carbon paste electrode for simultaneous electrochemical determination of terbutaline sulphate and guaifenesin

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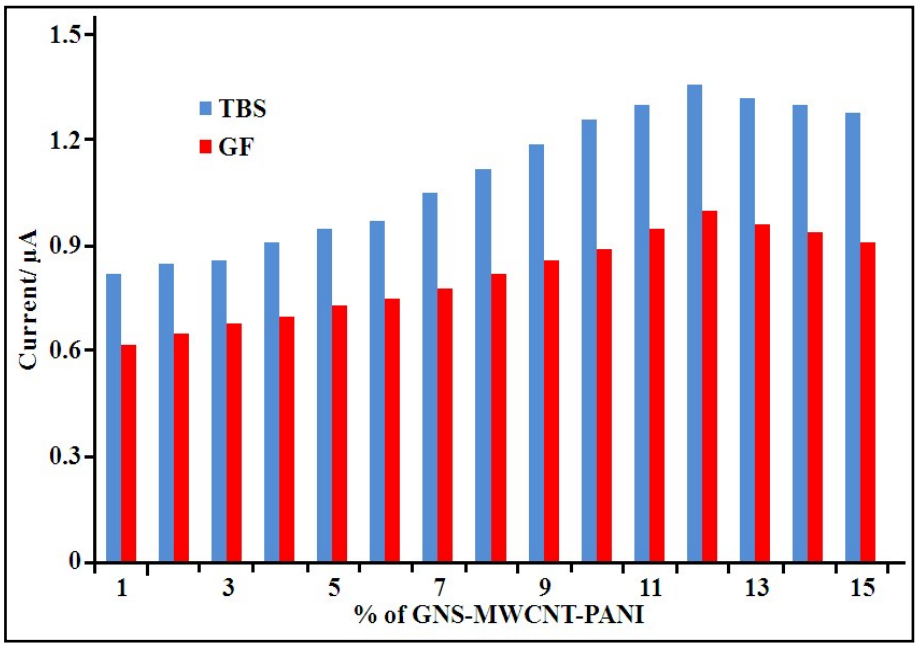

Fig. S1 Effect of amount of GNS-MWCNT-PANI composite on the peak current of 8.0 x 10^{-6} M TBS and GF at GNS-MWCNT-PANI electrode employing DPV; step potential = 5 mV and modulation amplitude = 50 mV

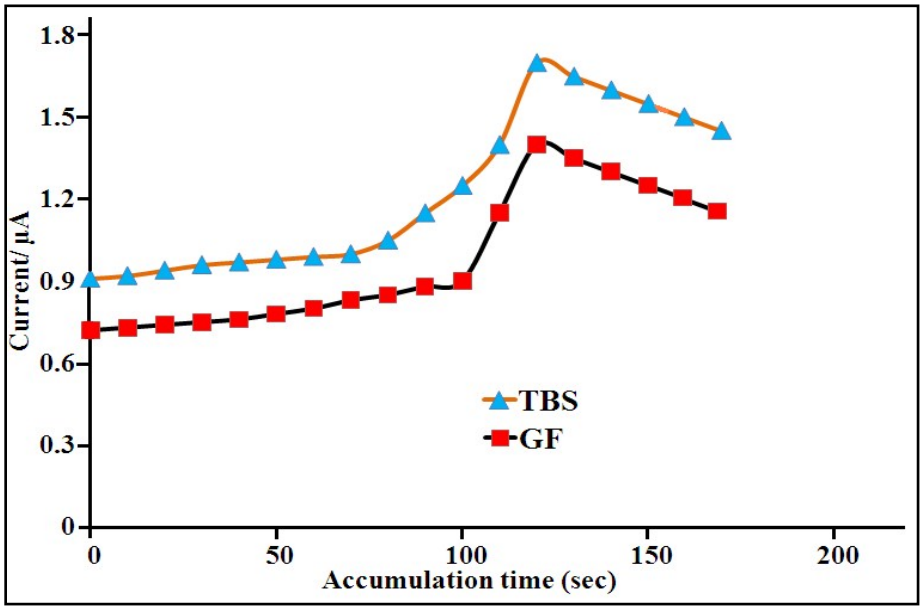

Fig.S2 Influence of accumulation time on the oxidation peak current of 2.0 x 10^{-5} M TBS and GF on GNS-MWCNT-PANI employing step potential of 5 mV and modulation amplitude of 50 mV in phosphate buffer solution (pH 6.0)

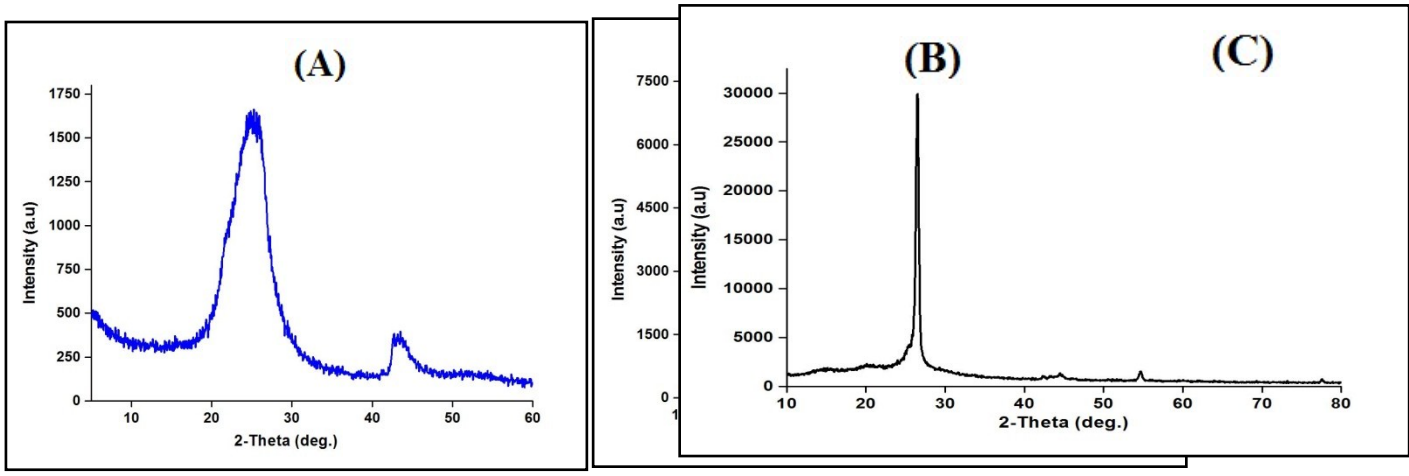

Fig. S3. Representative XRD patterns of **(A)**GNS, **(B)**MWCNT, **(C)**GNS-MWCNT-PANI

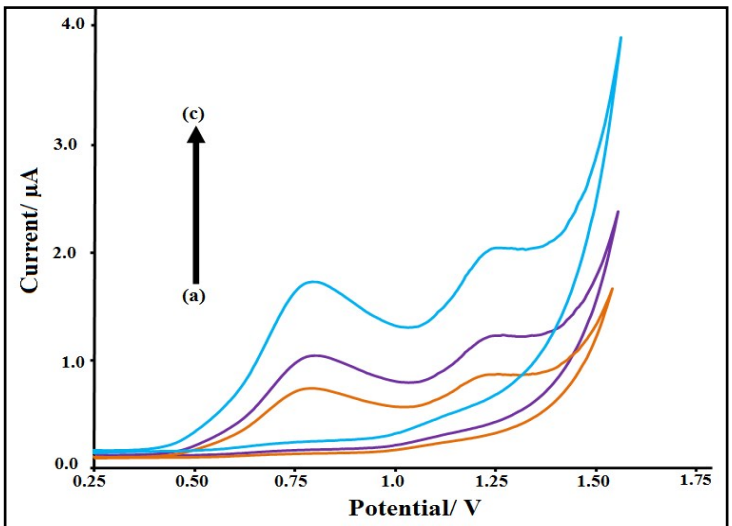

Fig. S4 Cyclic voltammograms of 4.1 x 10^{-5}M TBS and 5.1 x 10^{-5}M GF at (a) MWCNT (—), (b) GNS (—), (c) GNS-MWCNT-PANI (—)

Table S1. Precision and Bias of assay for standard TBS and GF solution by the proposed voltammetric procedure (n = 5)

No.	Molecule	Concentration (taken) (10^{-7} M)	Concentration (found) (10^{-7} M)	Recovery (%) (n = 5)	Bias (%)	Precision % R.S.D (n = 5)
		Intra - day				
1	TBS	4.0	3.96	99.0	1.0	1.8
		Inter - day				
		6.0	5.91	98.5	1.5	2.7
		Intra - day				
2	GF	5.0	4.94	98.8	1.2	2.1
		Inter - day				
		8.0	7.9	98.7	1.25	2.8