

Supporting information

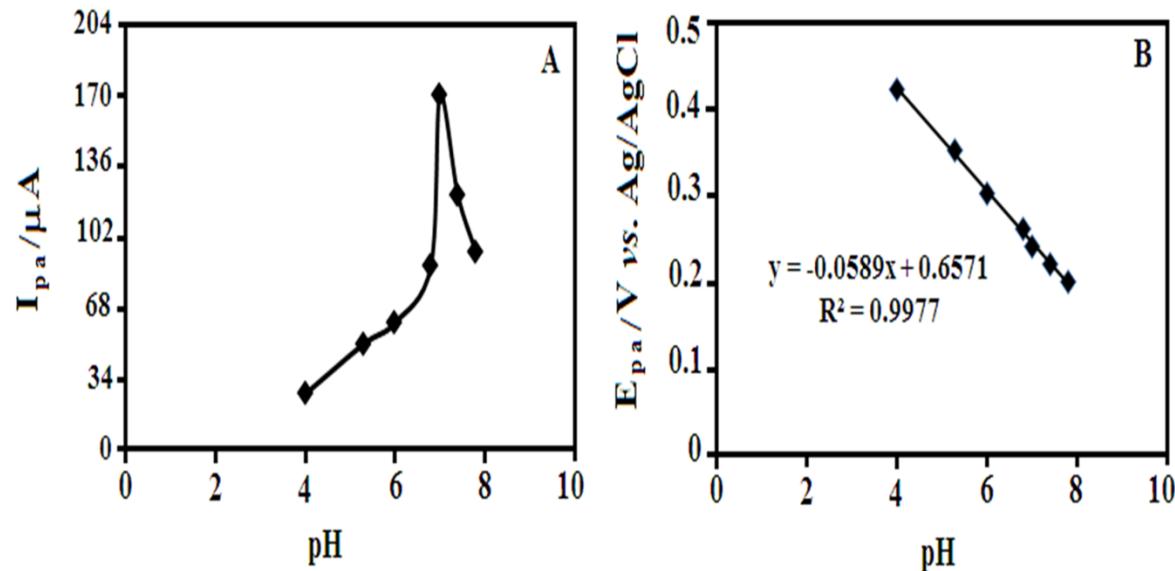


Fig. S1. Effect of pH on the (A) anodic peak currents and (B) anodic peak potential.

Table S1. The Rs, Rct, Q and W values from equivalent circuit fitting of the electrochemical impedance plots.

Electrode	Rs (Ω)	R _{ct} (Ω)	Q (μMho)	W(μMho)	n
Bare	173.34	7517.4	3.85E-06	9.97E-05	0.761
Ultrappy-GCE	180	2236.5	8.65E-06	6.88E-05	0.811
Pt NPs-GCE	184.48	936.87	4.9931E-05	5.51E-03	0.879
Pt/Ultrappy-GCE	190.93	476.02	8.02E-04	3.34E-04	0.794

Scheme 1

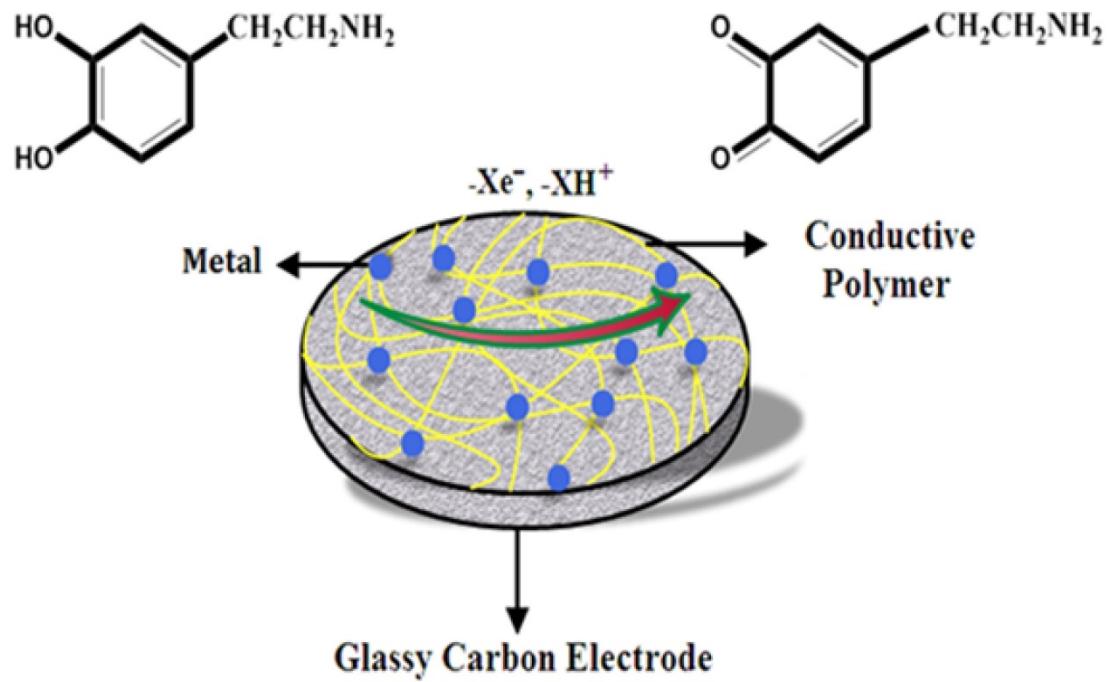


Table S2. Determination of DA in DA hydrochloride injection.

Sample	Content (μM)	Added (μM)	Found (μM)	RSD %	Recovery (%)
1	100.57	0	100.50	1.31	99.93
2	100.57	10	110.24	1.25	99.70
3	100.57	20	119.69	1.24	99.27