Article

Sodium Dodecyl Sulfate Mediated Graphene Sensor for Electrochemical Detection of the Antibiotic Drug: Ciprofloxacin

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Supplementary information

Figures:

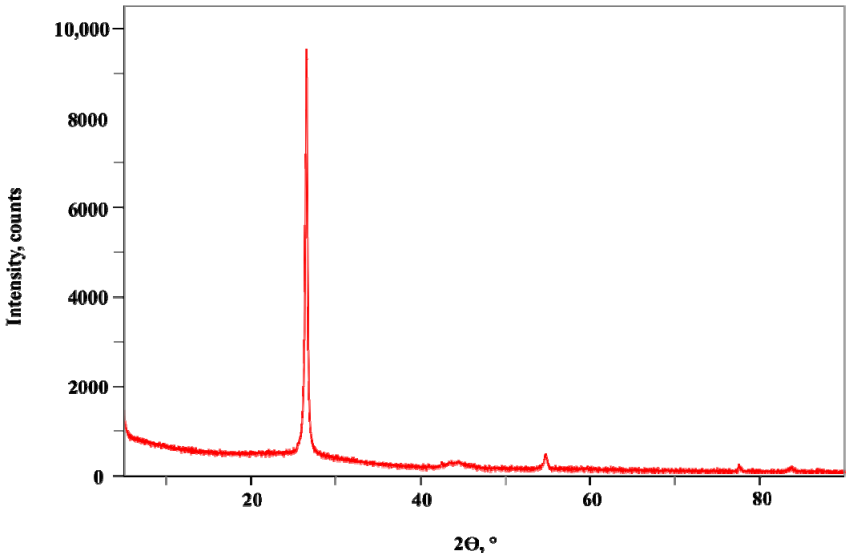


Figure S1. XRD image of graphene.

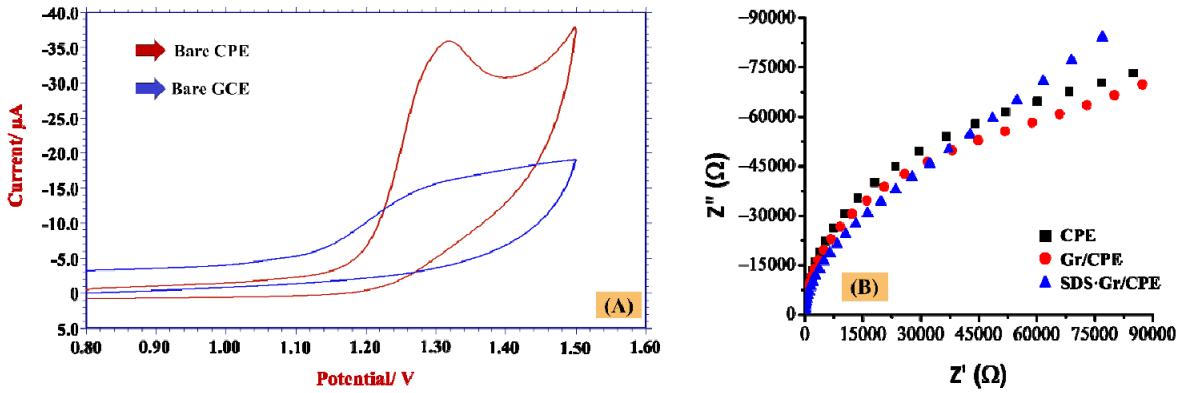


Figure S2. Voltammetric response of 0.1mM CIP in PBS of 4.2 pH using bare CPE and bare GCE at a scan rate of 0.05V/s **(A)**; EIS study of developed electrodes – Nyquist plot **(B)**.

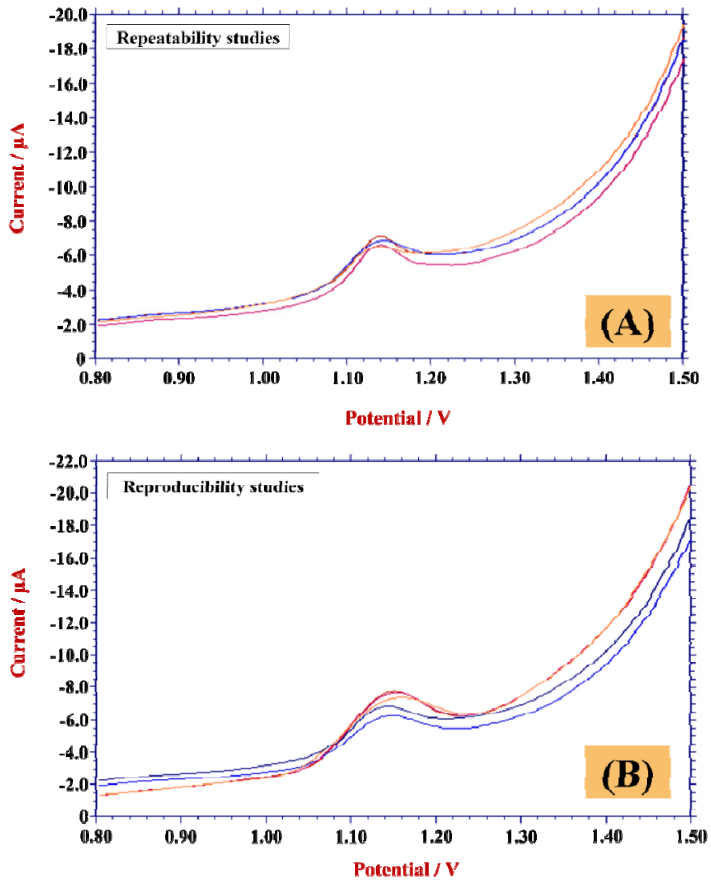


Figure S3. Voltammograms obtained for repeatability studies **(A)**; Reproducibility studies **(B).**

Tables:

Table S1. Data obtained for excipient analysis

Analysed excipients	Current observed *	Signal Change % (Ip)
CIP	9.55	-
Glycine	9.98	-4.41
Histidine	9.82	-2.77
Citric acid	9.28	2.81
Glucose	9.69	-1.43
Lactose	9.33	2.33
Leucine	9.20	3.65
Sucrose	9.25	3.15
Urea	9.88	-3.43
Ascorbic acid	9.76	-2.13

* Average of three readings