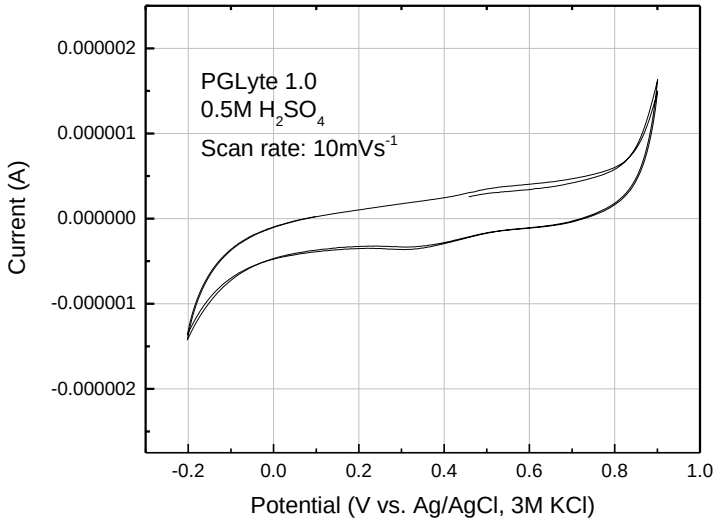
Electrochemical characterization of Glassy carbon electrode

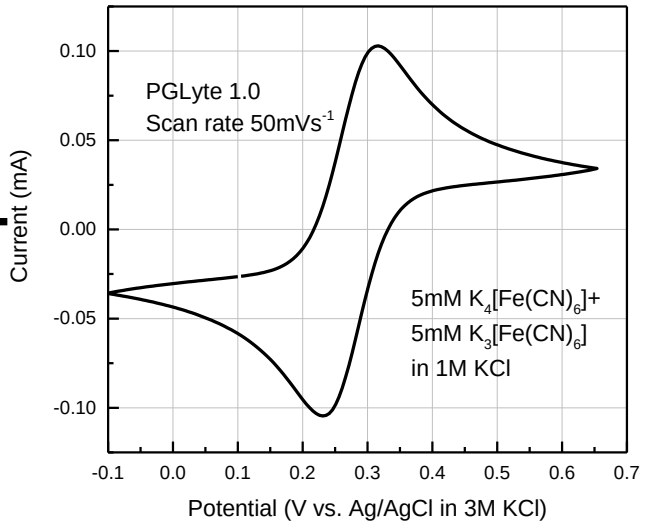
The electrochemical characteristic of glassy carbon electrode is largely dependent on the electrode surface poilishing. The electrode's surface was polished to mirror finish before shipped, but the user may need to renew the electrode surface with mild polishing prior to an experiment. Polishing is the most recommended procedure to renew the glassy carbon electrode's surface.

We provide the following testing data for each and every purchased electrodes.



As desired for ideal glassy carbon electrode, no redox peaks appears in the cyclic voltammogram taken in 0.5M H_2SO_4

The voltammograms of ferrocyanide/ferricyanide redox couple shows expected characteristics.



Kanopy Techno Solutions Private Limited,
A-402, Nirman Exotica, Ramnagar Colony, Bavdhan, Pune - 411021, Maharashtra, India
+91 9834596133 | contact@kanopytech.com | www.kanopytech.com

Warning!

- The PTFE body is resistant to solvents and temperatures, generally used in electrochemical experiments. Repeated and prolonged high temperature (above 60^{o}C) study may cause leakage and sealing failure and hence not recommended.

- Glassy carbon electrodes get irreversibly damaged if used at highly oxidative potential, and once damaged, cannot be renewed by polishing. The limiting value of the oxidation potential will depend on the pH.