

# compact voltammetry

We're putting the ease into electrochemical measurements that are quick and compact. Our screen-printed electrodes do not require polishing like traditional electrodes and are ready to use right out of the box. The screen-printed electrodes are ideal for routine electrochemical measurements employed in educational laboratories, as well as for advanced research applications including biosensor development and research requiring inert environments.

## convenient.



Each electrode contains a working, counter, and reference electrode on one substrate. Screen-printed conductive inks delineate three electrodes printed in one layer onto an inert substrate. Electrode connections are made using an edge-card connector, and the traces which lead to each electrode are protected with an insulating layer.

## efficient.



Small patterns fit into small places. Cell designs, with volumes ranging from 50 mL down to 1 mL, are available. Our most popular cell design is based on the common 20 mL disposable scintillation vial, where electrochemical measurements are performed on analyte solutions in the very same vial used to store the solution.

## adaptable.



Screen-Printed electrodes are mounted in a grip assembly, which transitions from edge-card to mini-USB-style connectors. The grip assembly fits into a special cap with inner threads to fit a scintillation vial and outer surfaces which mate perfectly with a standard GL-45 threaded adapter. The larger GL-45 threads fit on to either a water jacket or a larger volume cell.

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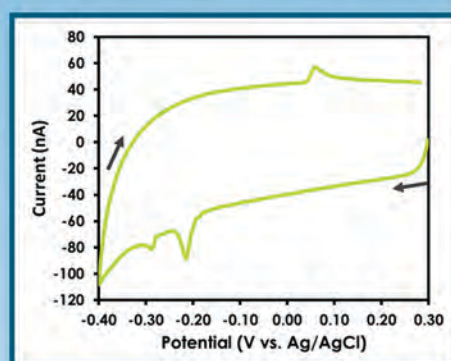
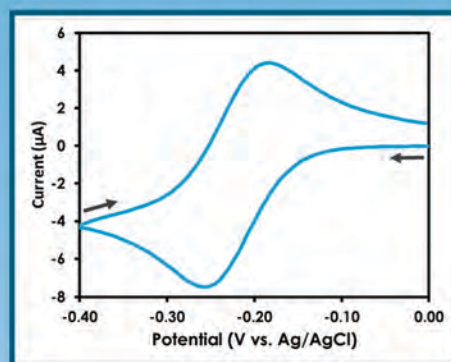
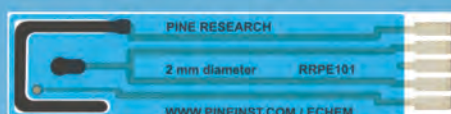


# Screen-Printed Electrodes



## carbon

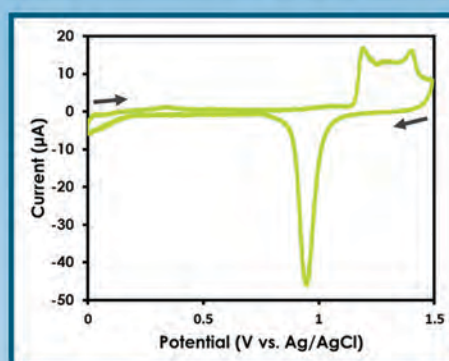
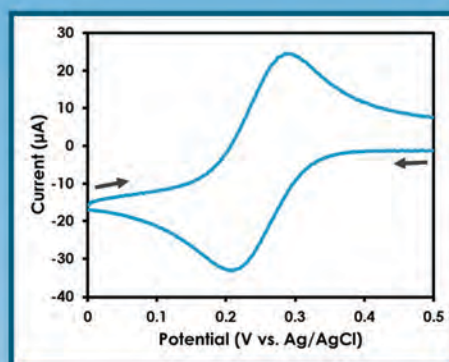
on PET polymer substrate



10 mM  $\text{Ru}(\text{NH}_3)_6\text{Cl}_3$  in 0.1 M KCl at 100 mV/s (TOP)  
0.1 M KCl electrolyte background at 100 mV/s (BOTTOM)

## gold

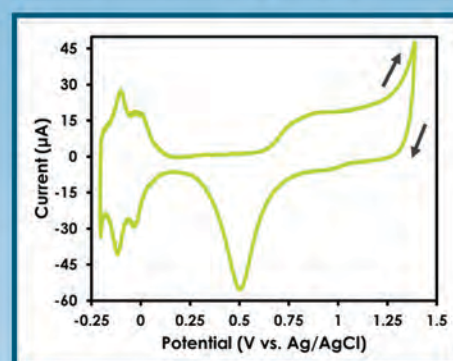
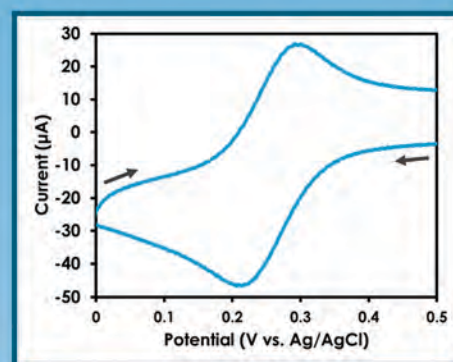
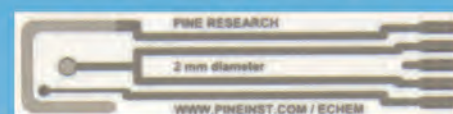
on ceramic substrate



5 mM  $\text{K}_3\text{Fe}(\text{CN})_6$  in 0.1 M KCl at 100 mV/s (TOP)  
0.5 M  $\text{H}_2\text{SO}_4$  electrolyte background at 100 mV/s (BOTTOM)

## platinum

on ceramic substrate



5 mM  $\text{K}_3\text{Fe}(\text{CN})_6$  in 0.1 M KCl at 100 mV/s (TOP)  
0.5 M  $\text{H}_2\text{SO}_4$  electrolyte background at 100 mV/s (BOTTOM)

Screen-Printed electrodes with ceramic substrates can be cleaned and reused many times, while those printed on inexpensive polymer substrates are disposable. Optional cells and accessories such as external reference electrodes are available separately.

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