

## Screen-printed cells AUS-4.0

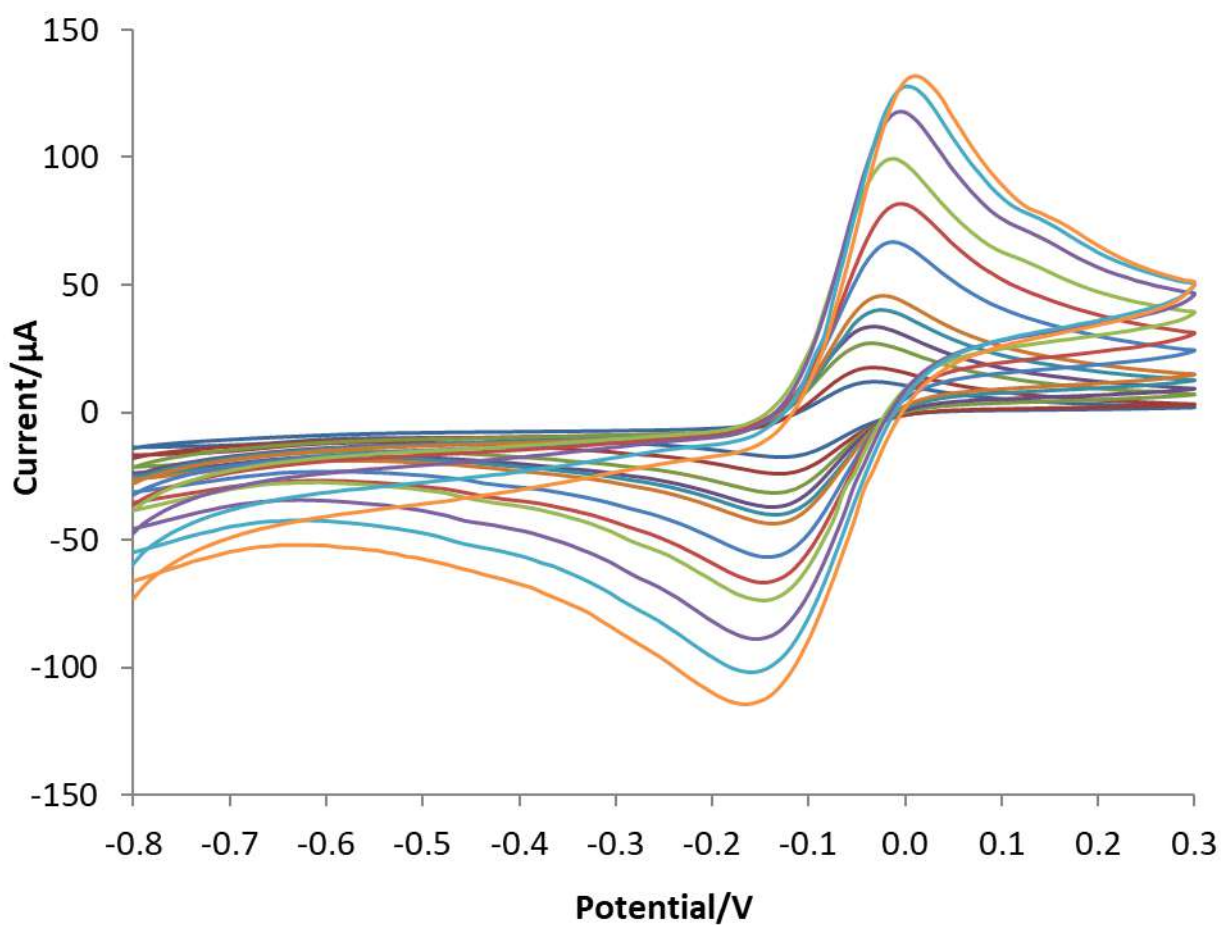
Pretreatment: only rinse with distilled water and stir for 1 min in the probe solution before measurement.

Probe solution:  $\text{K}_3\text{Fe}(\text{CN})_6$  5mM/KCl 0.1M, pH 7

$E_{\text{start}} = -0.8 \text{ V}$ ;  $E_{\text{end}} = +0.3 \text{ V}$

scan rates range:  $0.01\text{-}1 \text{ V s}^{-1}$

Active area:  $5.9(7) \text{ mm}^2$  (computed by Randles–Sevick's equation)



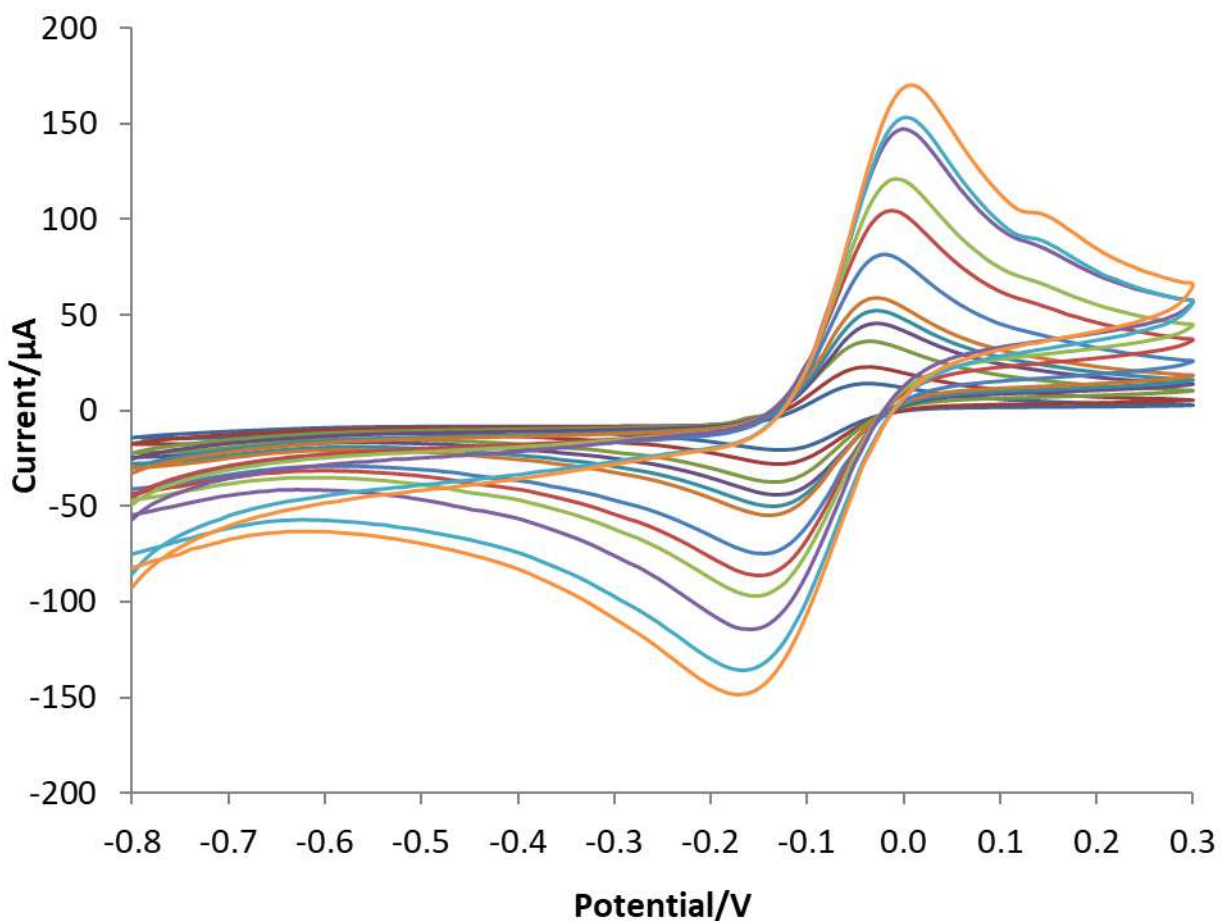
Pretreatment: 10 CV in  $\text{H}_2\text{SO}_4$  0.5 M, rinse with distilled water and stir for 1 min in the probe solution before measurement.

Probe solution:  $\text{K}_3\text{Fe}(\text{CN})_6$  5mM/KCl 0.1M, pH 7

$E_{\text{start}} = -0.8 \text{ V}$ ;  $E_{\text{end}} = +0.3 \text{ V}$

scan rates range:  $0.01\text{-}1 \text{ V s}^{-1}$

Active area:  $7.4(9) \text{ mm}^2$  (computed by Randles–Sevick's equation)



✓ *Repeatability and reproducibility tests*

Pretreatment: 10 CV in  $\text{H}_2\text{SO}_4$  0.5 M, rinse with distilled water and stir for 1 min in the probe solution before measurement.

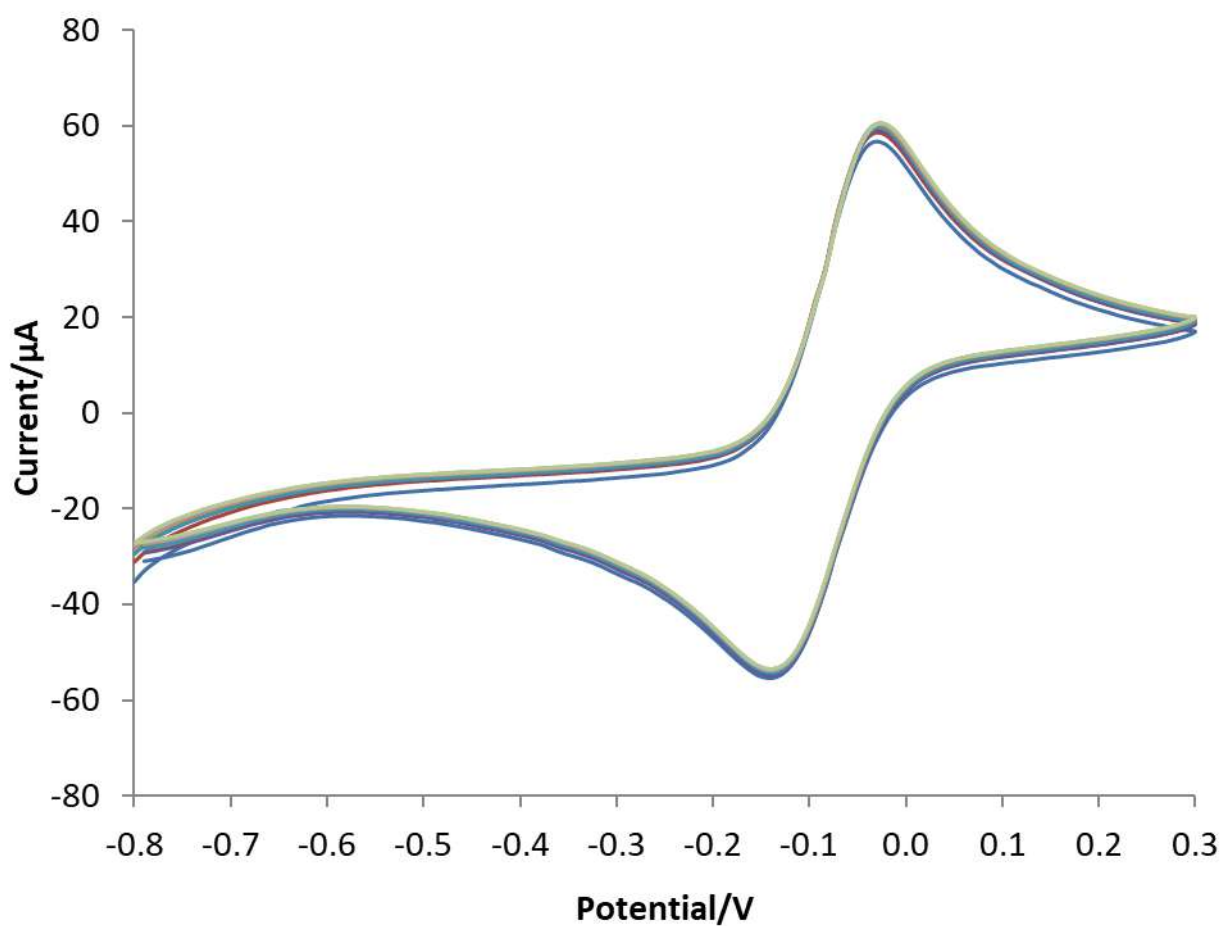
Probe solution:  $\text{K}_3\text{Fe}(\text{CN})_6$  5mM/KCl 0.1M, pH 7

$E_{\text{start}} = -0.8 \text{ V}$ ;  $E_{\text{end}} = +0.3 \text{ V}$

scan rate:  $0.1 \text{ V s}^{-1}$

✗ 10 CV scans with the same screen-printed cell

○  $I_{\text{pA}} = 65.0(2) \mu\text{A}$ ;  $I_{\text{pC}} = -59.7(2) \mu\text{A}$  ( $n = 10$  scans)



× 10 replicates of 3 CV scans with the same screen-printed cell

