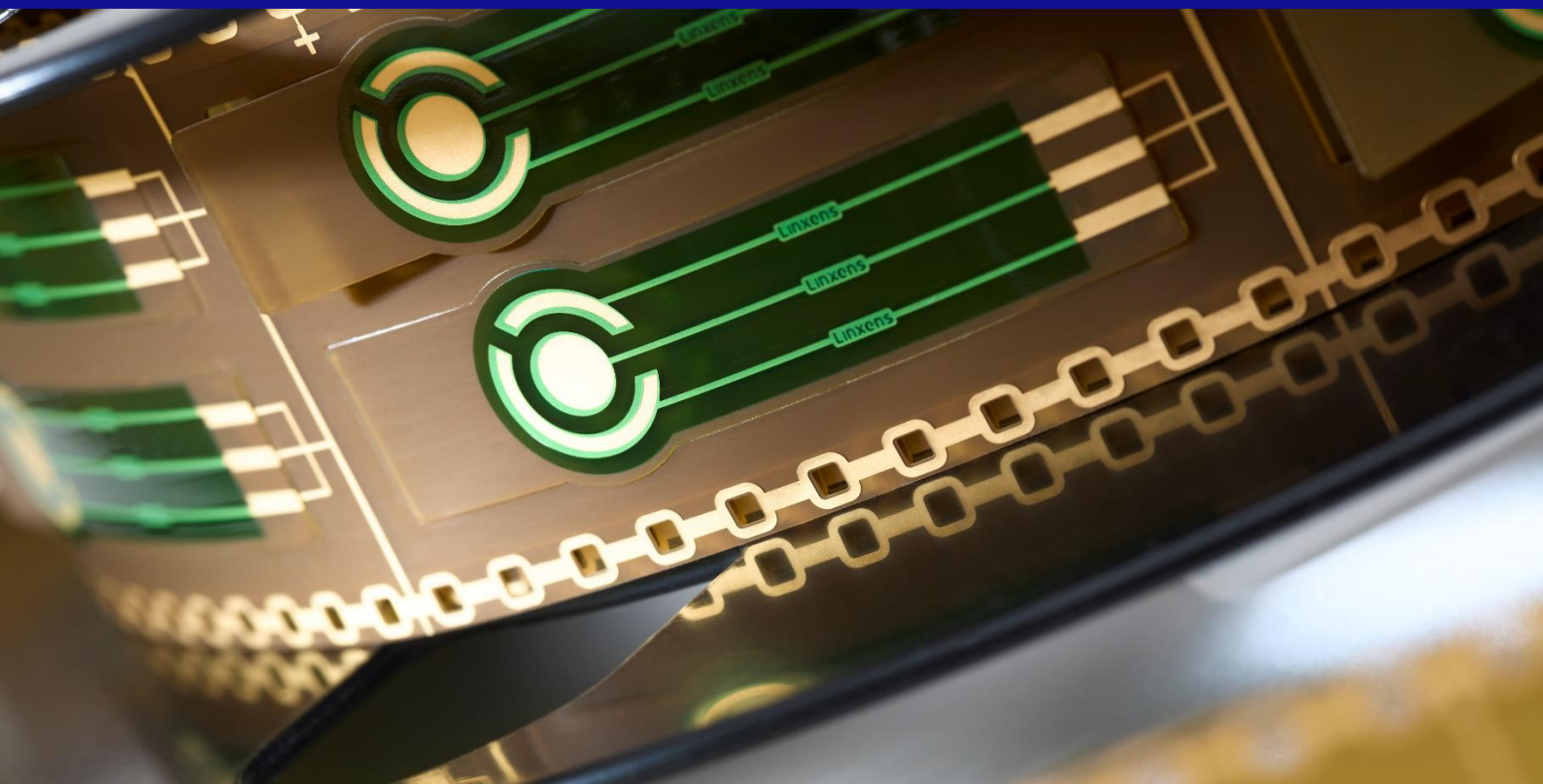


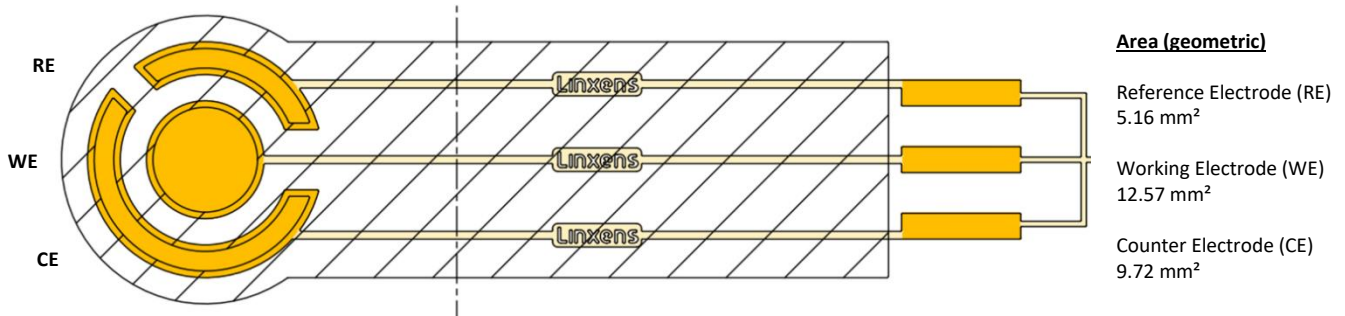
# Linxens OT5c Gold Electrodes PN 9X85204FA

Product Drawing and Description

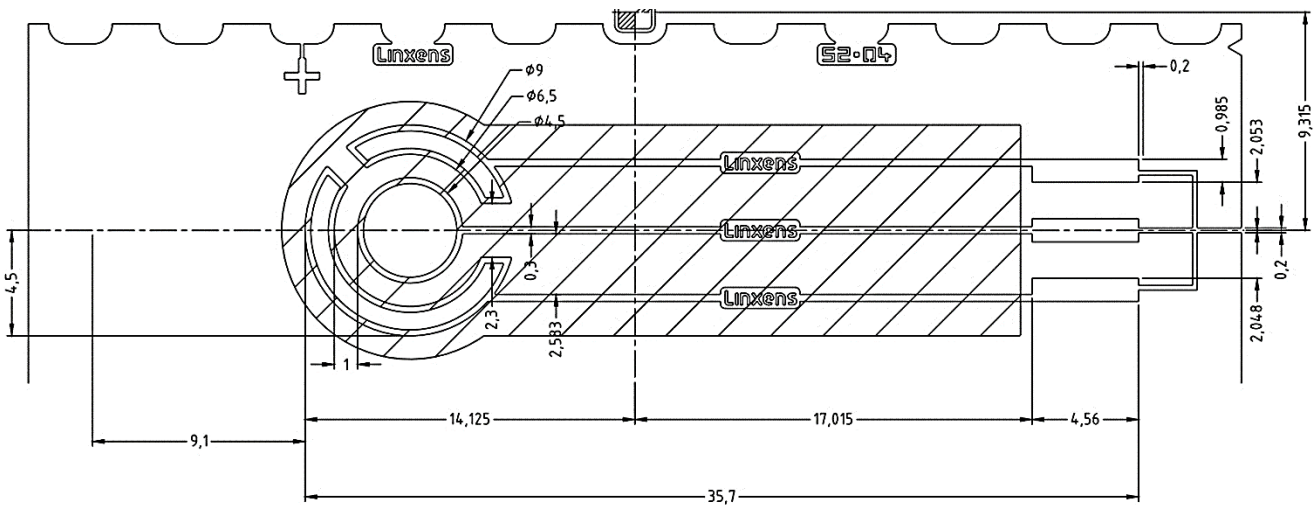


## Drawing 9X85204FA

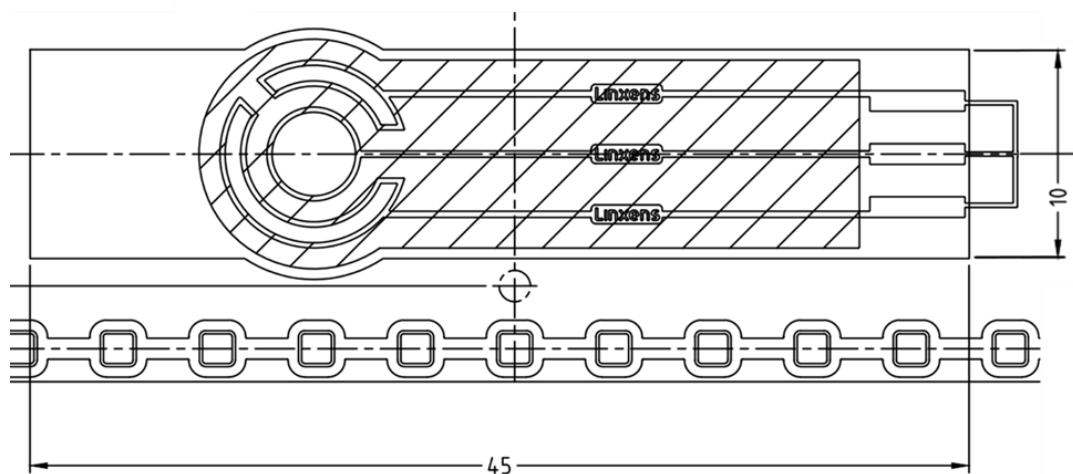
### View of the gold electrodes



### Dimensions of the gold electrodes



### Dimensions of the pre-cutting



## Product Description

### Raw Material



	Characteristics	Values / Limits
<b>Coverlay</b>	Type	Photoimageable film
	Thickness	35 $\mu\text{m}$
<b>Plating</b>	Gold thickness	0.2 $\mu\text{m}$
	Nickel Thickness	3 $\pm$ 1 $\mu\text{m}$
<b>Copper</b>	Type	Cu ED
	Thickness	18 $\pm$ 3 $\mu\text{m}$
<b>Substrate</b>	Type	Polyimide
	Thickness	50 $\mu\text{m}$
<b>Stiffener</b>	Type	PET + adhesive
	Thickness	200 $\mu\text{m}$

## Total Thickness

Value with plating included: 306  $\pm$  4  $\mu\text{m}$

## Delivery Format

Sheets of 266.1 x 150 mm: 20 units

Reels of 100 units

## Electrochemical Properties

## Experimental conditions:

All data was recorded on a **PalmSens 4** potentiostat using Linxens' standard gold as working, reference and counter electrodes.

Linxens' gold was compared to a commercial gold electrode (Metrohm/61204140). Scan rate was fixed at 100mV/s except when mentioned. Phosphate Buffer (PB) and Phosphate Buffer Saline (PBS), used as supporting electrolytes, were purchased from Sigma Aldrich (Merck).

Ferrocene Methanol (FeMeOH, 1mM in PB) as well as Potassium Ferricyanide and Ferrocyanide ( $K_3[Fe(CN)_6]$  +  $K_4[Fe(CN)_6]$  5mM in PBS) were used as a redox probes and purchased from Sigma Aldrich (Merck).

All data was recorded using Linxens' electrode from the shelf, **without any cleaning procedure**.

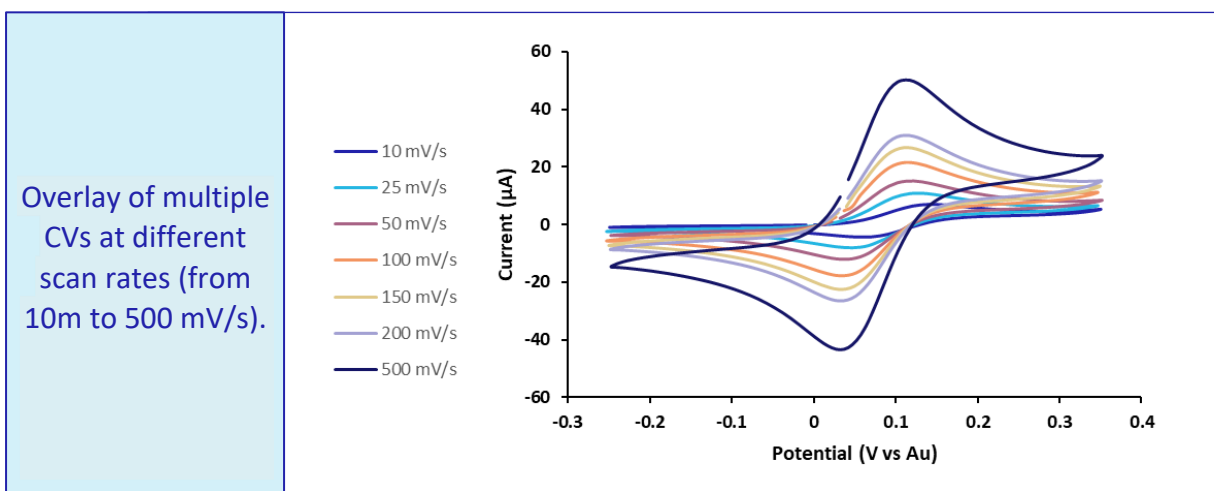
### Caution:

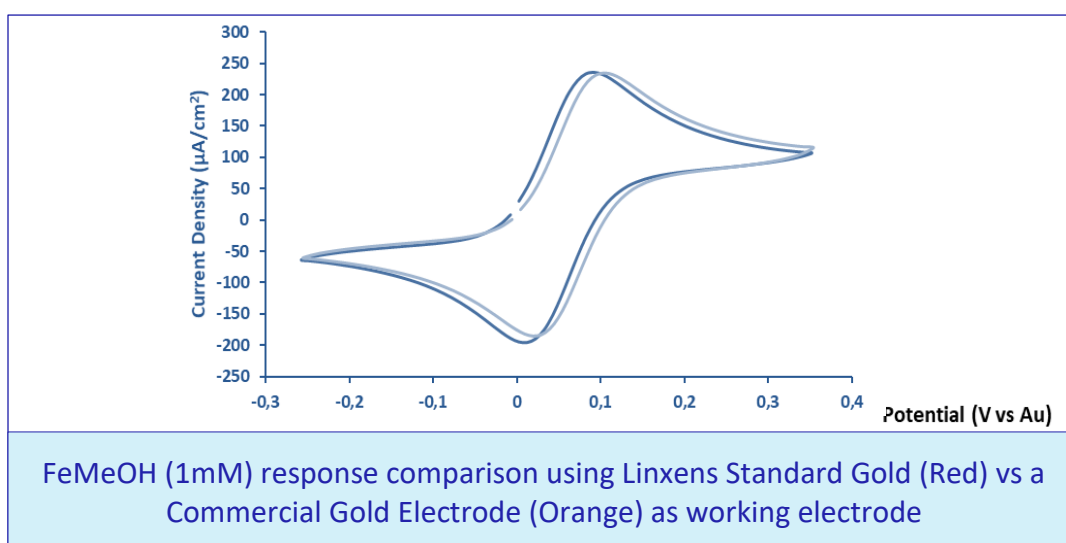
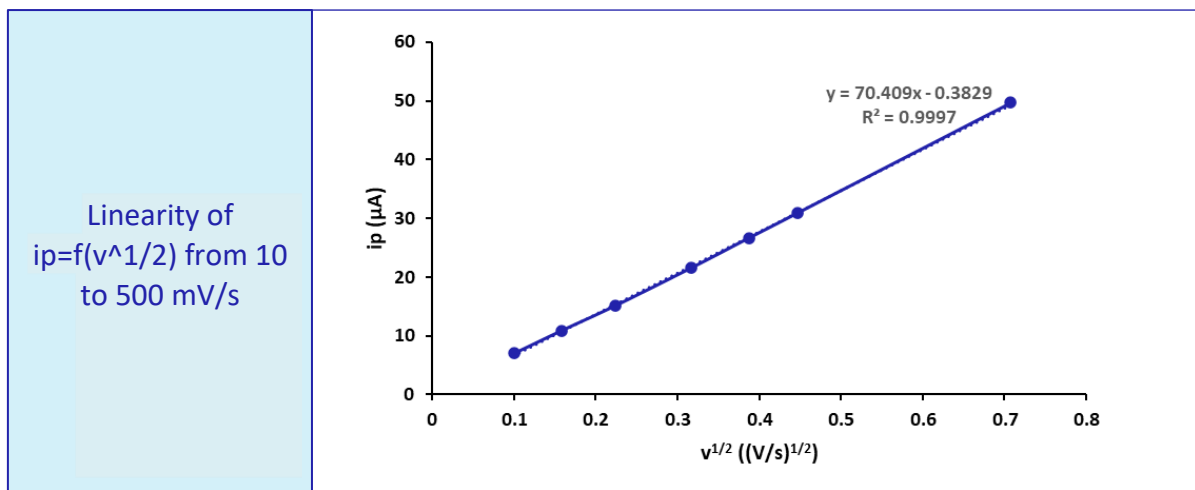
It is recommended to initially assess the electrodes without cleaning. If necessary, employ mild cleaning procedures such as sonication in water and/or ethanol. Exercise caution during prolonged experiments at oxidative potentials in chlorinated media, particularly at potentials exceeding 0.5V versus Ag/AgCl. Avoid extended exposure of the coverlay material to organic solvents.

Please note that the Standard Gold Electrodes are designed for single-use applications with a focus on signal quality, repeatability and cost efficiency. For bespoke requirements, including reagent deposition, custom geometries, solvent compatibility, selective electrodes plating and long-term applications, feel free to contact us for tailored solutions.

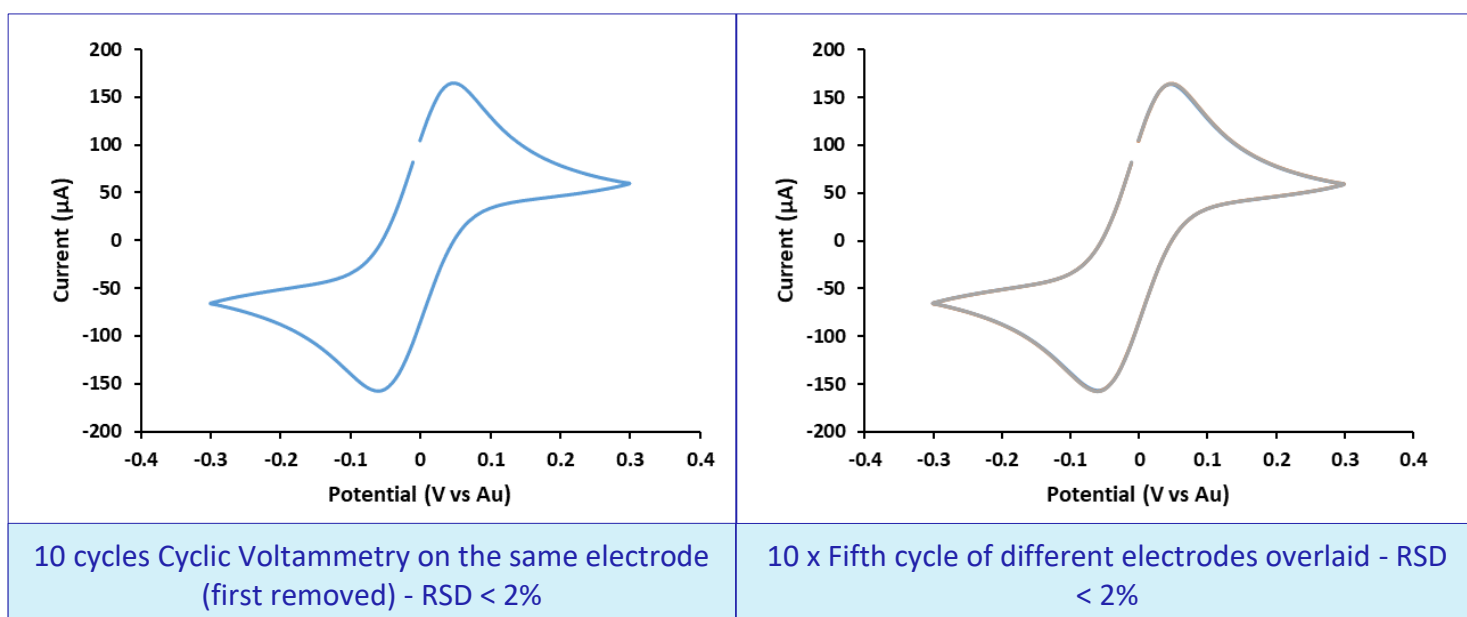
## Electrochemical response in the presence of redox probes:

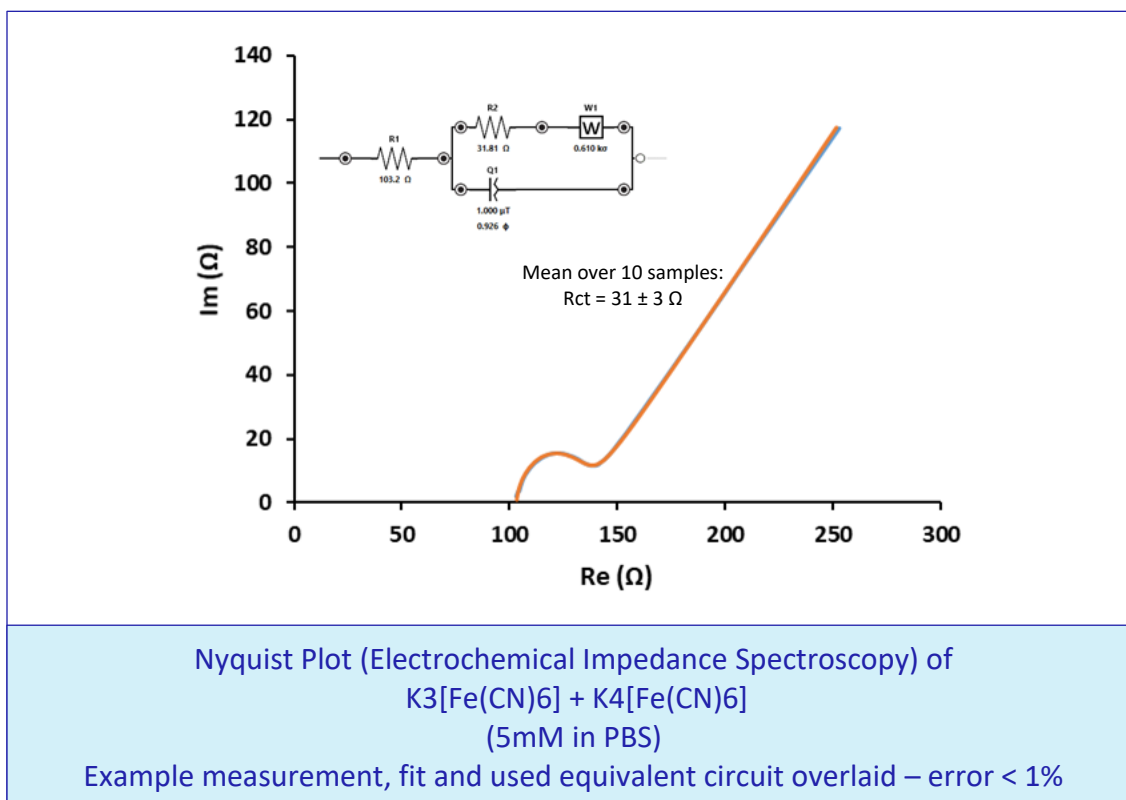
### FeMeOH (1mM in PBS) Cyclic Voltammetry



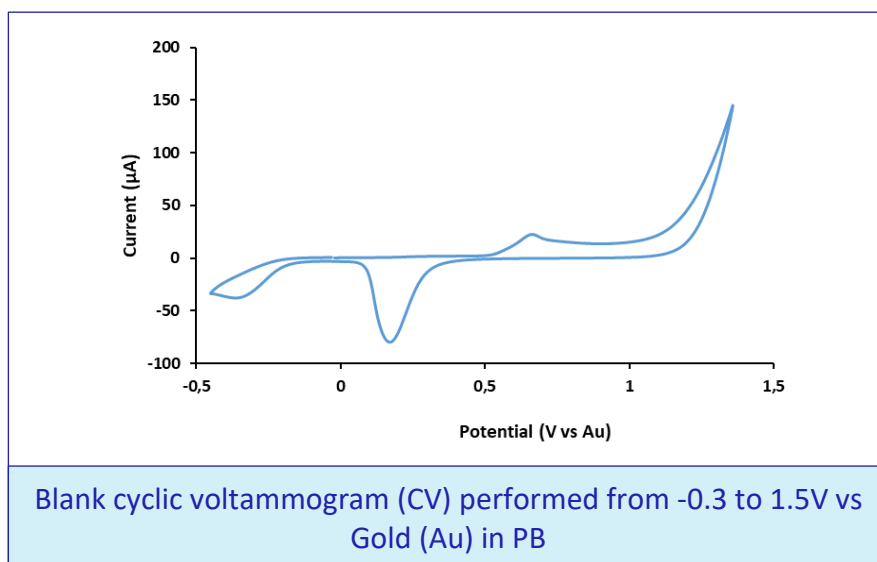


### Cyclic Voltammetry of $K_3[Fe(CN)_6] + K_4[Fe(CN)_6]$ (5mM in PBS)





## Blanks in PB





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our offers and get in touch with us!

For any technical queries, please contact  
us at:  
[contact@linxens.com](mailto:contact@linxens.com)