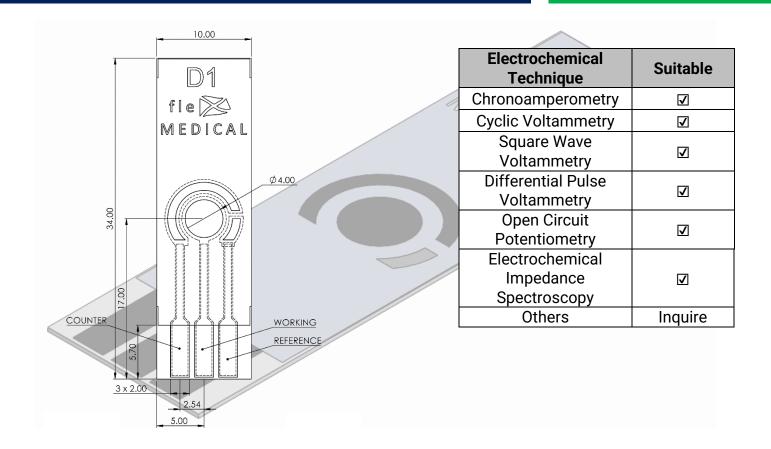
### **Screen-Printed Carbon Electrodes**

FMS-0008



### Sample Performance Data

#### Performance data

The following data describes typical expected performance from the sensors within a batch. Please contact the manufacturer for batch-to-batch performance information.

#### Method of analysis.

Analysis was performed by cyclic voltammetry using 5mM Potassium Ferri/ferrocyanide in 10mM PBS pH7.4

#### **Settings**

Estart: 0.0V Evertex1: 1.0V Evertex2 -0.8V Steps 0.01V Rate 0.1V/sCycles

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#### **Results**

The below voltammogram was obtained using the above settings. The initial scan (starting at 0.0V was removed)

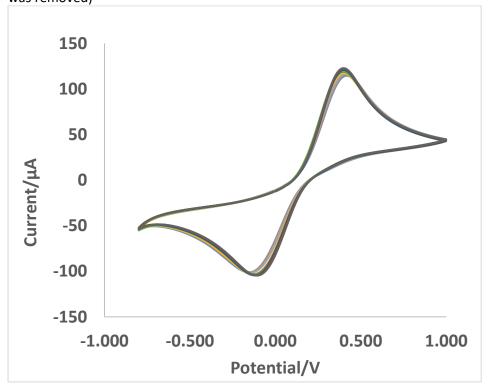


Figure 1: 3 successive scans of mediator solution on sputtered carbon sensor

# Sample Performance Data (cont.)

### Between scan characteristics (within electrode)

Oxidation peak: 117.9uA at 0.41V, Reduction peak: -101.7uA at -0.14V,

### Peak repeatability (3 scans across 20 sensors within batch)

**Oxidation** peak coefficient of variation:

Stability 0.9% (scan to scan within sensor)

Repeatability 3.9% (between electrodes)

**Reduction** peak coefficient of variation:

0.2% (scan to scan within sensor) Stability

Repeatability 3.4% (between electrodes)

### Single use

The electrodes are designed to be single use, for best result use once then discard.

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## **Technical Data**

Parameter	Value
Working Electrode	Carbon
Counter Electrode	Carbon
Reference Electrode	Ag/AgCl
Substrate	PET
Conductive Tracks	Silver
Working Area	12.6 mm <sup>2</sup>
Sample Volume	50 – 100 μL
Usage	Single use
Application	For R&D use only.

Engineering and usage data for FMS-0008 screen-printed carbon electrodes

For more information contact: <a href="mailto:info@FlexMedical-Solutions.com">info@FlexMedical-Solutions.com</a>