

SEP2: biotIP® PCB sensing electrode.

Fabricated using optimised PCB manufacturing techniques enabling excellent reproducibility, our sensing electrode surface characteristics are far superior in comparison to screen printed electrode (SPE) technology.

The central gold working electrode ($d = 4 \text{ mm}$) along with gold counter and reference electrodes allows work with microvolumes or dipping experiments depending on your need. These electrodes are compatible with widely available SPE connectors.

Our electrodes are highly reproducible similar to our SEP1 product. These PCB electrodes can easily be manufactured in high quantities and thus help overcome the hurdle of commercialisation by eliminating the cost of extra research required from the upscaling process.

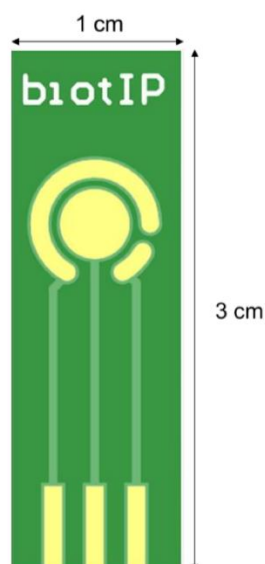


Figure 1: SEP2: biotIP® PCB sensing electrode.

The highly reproducible surface characteristics of our sensing electrodes also enables them to be successfully employed for various uses demanding assay implementation, such as self-assembled monolayer (SAM) assisted biomolecule immobilization.

Featuring excellent reproducibility, effortless connectivity and verified compatibility with advanced surface chemistries (e.g. SAM formation) biotIP® SEP2 single-channel sensing platforms are ideal for use across a breadth of R&D applications in various fields such as:

- Electrochemistry
- Microfluidics
- Chemical sensing
- Biosensing

Along with its platforms, biotIP offers its developed sensing electrode surface preparation protocols, along with support in adapting them to cater for your assay requirements.

For further information, please email sales@biotIP.co.uk or call +44 7816 56 46 99

Electrochemical performance characteristic curve

For further information on SEP2 performance see the datasheet for the electrochemically similar SEP1, or contact us directly.

Pinout schematic for manually connecting SEP2

The following colour convention is used and shown in the schematic representation below. Pin numbers are increasing from left to right.

Counter – White – pin 1

Working – Green – pin 2

Reference – Red – pin 3

