These practical kits allow students with or without electrochemical experience to complement their academic programs by an inquiry-based learning on research experiences.

The kit contains:

- **The Professor’s manual**: theoretical and practical guidance at specific electrochemical methods and more extended information about the experiments. It has the figures corresponding to voltammograms, regression curves, optimized parameters, etc.

- **The Student’s manual**: a brief explanation about the analyte and an outline of the experiment. Students are guided through the different steps to develop an analytical method: prepare the standard solutions, apply certain method to do the electrochemical characterization, optimize the different parameters in a measurement and choose the best ones to develop the method for the analyte quantification.

- **Screen printed electrodes** to undertake the sessions and **analyte samples**.
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On the plus side, the electrodes are screen-printed, disposable and easier to use than conventional carbon paste or glassy carbon electrodes, so it is made the most of the practical sessions' time. Students do not waste the time preparing the carbon paste or cleaning the glassy carbon electrode, therefore they learn the electrochemical techniques (cyclic voltammetry, differential pulse voltammetry, square wave voltammetry, flow-injection amperometry) and the **rational design of an analytical method**: electrochemical characterization of the analyte, optimization of parameters such as pH or electrochemical factors (i.e. scan rate), select an adequate method and determine its analytical characteristics. Finally they apply the developed method to a real sample.