



# LABORATORY PRACTICE PACKS





The *laboratory practice protocols* have been designed for undergraduate & postgraduate students of different areas (Chemistry, Pharmacy, Biology...). They will be able to acquire practical skills in separation techniques (capillary electrophoresis) as well as electrochemical detection in a very simple and easy way.

Different packs are available for each practice, from a *full-* to a *basic-pack*, in order to fulfill the particular necessities of all educational centers.

## OPTION 1. FULL PACK (MXF-PLAB-FP) or iPACK (MXF-iPLAB-FP)



The most complete pack provides all the tools necessary for introducing the students in the use of miniaturized instrumentation and microfluidic devices.

- » MicruX<sup>®</sup> HVStat (Ref. HVSTAT2010) or iHVStat (Ref. iHVSTAT2012) Instrument + Accessories
- » Microchip Holder DC series (Ref. MCE-HOLDER-DC02)
- » Microchips electrophoresis with integrated electrodes (Ref. MCE-SUB-Pt001T)
- » **Teacher's guide:** includes detailed description of the experiments with the most relevant theoretical and practical aspects. Result examples are presented including electropherograms, optimal analysis conditions, calibration plots, real sample analysis, etc...
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- » **Student's guide:** includes a brief description about the main outlines of the experiments to be performed. Students are guided through different stages in order to optimize an analytical method based on an electrophoretic separation and electrochemical detection. The optimal conditions could be used for a real (or non-ideal) sample analysis.
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- » **Excel Template:** for collecting the experimental data and studying the results in order to get the best parameters.
- » **Reagents:** specific chemicals for preparing the standard and buffer solutions.
- » **Other material** (syringes, filters, sample containers...) necessary for carrying out the experiments.



## OPTION 2. STANDARD PACK (MXF-PLAB -5P)\*



- » Microchips electrophoresis (Ref. MCE-SUB-Pt001T)
- » Teacher's guide
- » Student's guide
- » Excel Template
- » Reagents
- » Other material (syringes, filters, sample containers...)

\*The performance of the experiments included in the guide requires a potentiostat and a high-voltage power supply

## OPTION 3. BASIC PACK (MXF-PLAB -BP)\*\*

- » Teacher's guide
- » Student's guide
- » Excel Template
- » Reagents
- » Other material (syringes, filters, sample containers...)



\*\*The performance of the experiments included in the guide requires a potentiostat, a high-voltage power supply and microchips electrophoresis

## OPTION 4. SPARE KIT (MXF-PLAB -5K)



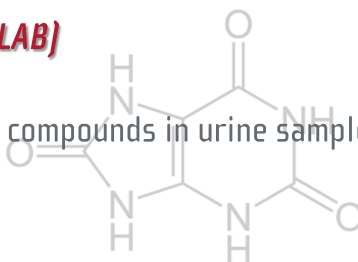
- » Reagents
- » Other material (syringes, filters, sample containers...)



Several practical protocols are being developed in order to involve different relevant fields such as *health, environment, food and beverage*.

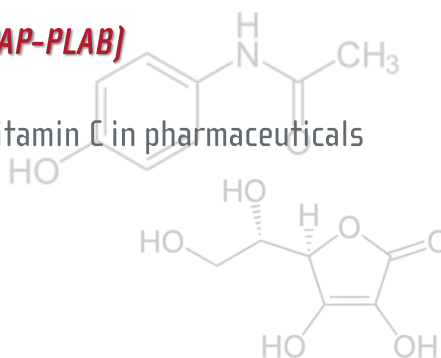
**:: LAB PRACTICE PROTOCOL I (UA-PLAB)**

- » Analysis of uric acid and related compounds in urine sample using ME-ED



**:: LAB PRACTICE PROTOCOL II (APAP-PLAB)**

- » Analysis of paracetamol and vitamin C in pharmaceuticals using ME-ED



Different parts of the packs might be ordered by separated. For further information and prices, please contact us: [info@micruxfluidic.com](mailto:info@micruxfluidic.com)

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