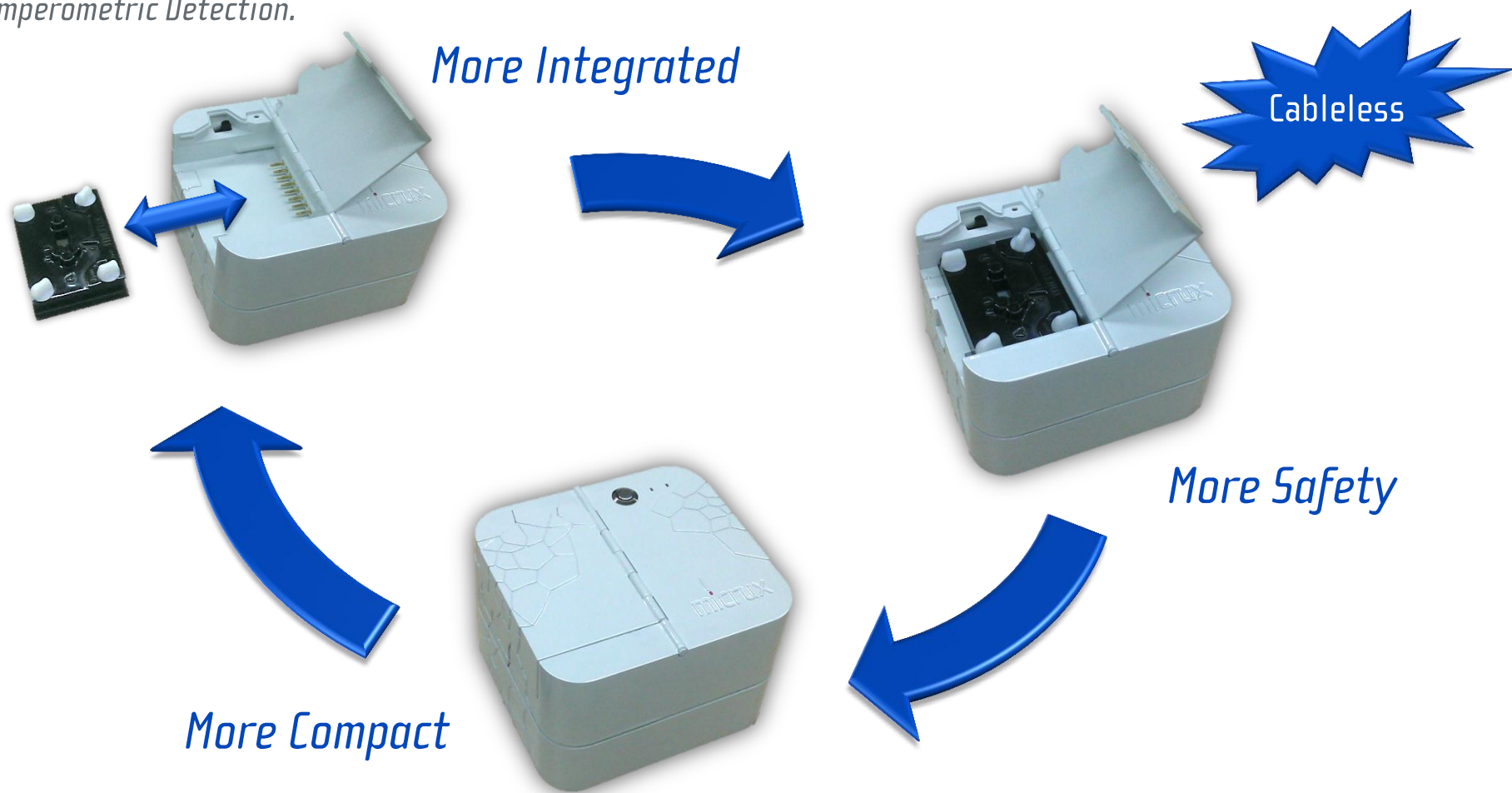




MicruX[®] iHVStat

MicruX[®] iHVStat

iHVStat (ref. iHVSTAT2012) brings the new evolution of electrophoresis systems based on *Microfluidic Chips* with *Amperometric Detection*.



A compact and portable equipment with a *high voltage power supply* and a *bipotentiostat* for dual amperometric detection.

Technical specifications

- » Dimensions: 165 x 150 x 95 mm (L x W x H).
- » Battery-powered (LiPo – 3300 mAh).
- » Control PC software.
- » Interfacing: Serial RS232/ USB Adapter/ Bluetooth®.
- » LED indicators: power, Bluetooth®, cable.

TECHNICAL FEATURES: High Voltage Power Supply

» Power:	1 W
» Channels/ Outputs:	1/ 4
» Outputs polarity:	Positive/negative
» Output voltage:	±3000 V
» Max. output current:	0,34 mA
» Output voltage tolerance:	±3 % typical
» Ripple:	< 1%
» Operating temperature:	-20°C to +70°C
» Storage temperature:	-20°C to +105°C
» Humidity:	20% to 85% RH

TECHNICAL FEATURES: Bipotentiostat

» DC-potential range:	± 2,00 V
» Voltage reference:	4,00 V
» DC-potential resolution:	1 mV
» DC-offset error:	± 1 mV
» Accuracy:	≤ 0,1 %
» Current ranges:	1 nA to 1 µA (4 ranges)
» Maximum current:	± 2 µA
» Current resolution:	0,1 % of current range / 1 pA on lowest current range
» Electrochemical techniques:	DC amperometric detection (AD) Pulsed amperometric detection (PAD)
» Run time:	1 s - ∞ (Experiments 1 s – 1000 h)
» Interval time:	10 ms - 1000 s (RS232/ USB)
» Pulse time:	5 ms - 1000 s (RS232/ USB)
» Maximum number of points:	No limited (depending of computer memory)

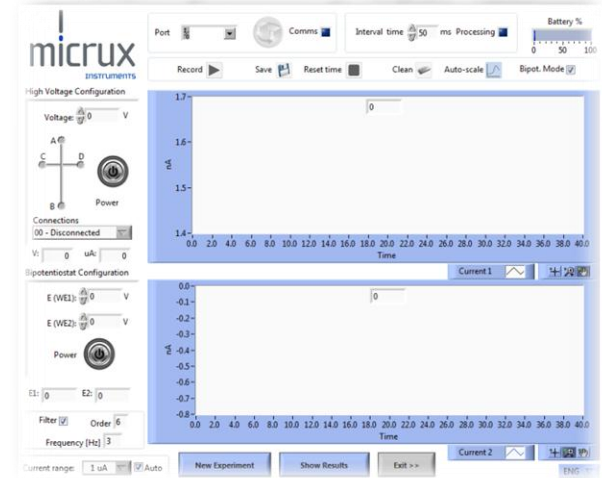
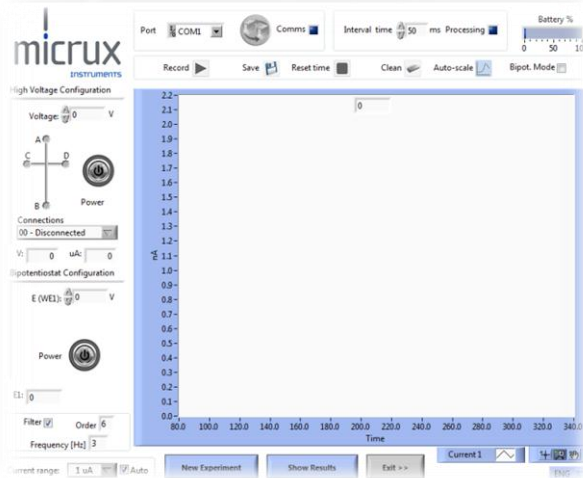
Specifications are subject to change without previous notice

MicruX[®] Manager

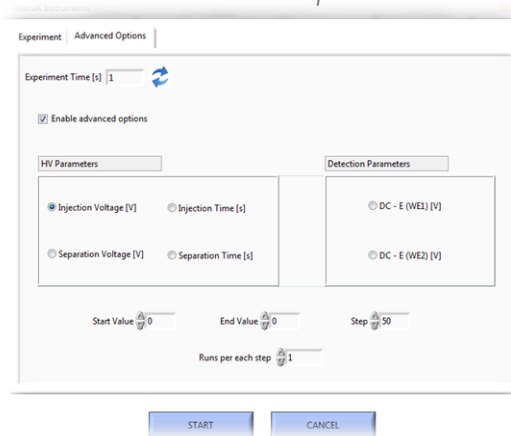
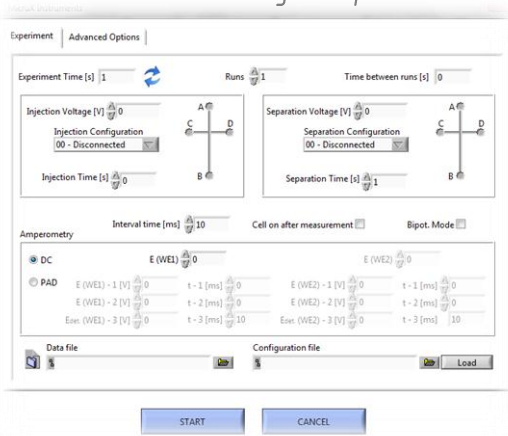
MicruX Manager is a graphical user interface (GUI) to automate the experiments with the smart microfluidic electrophoresis system.

MicruX Manager main interface for single- and dual-mode detection

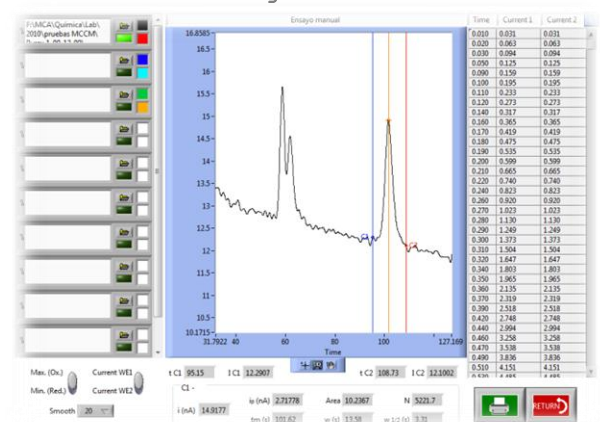
- » Easy-to-use
- » Multiple runs
- » Automated assays



MicruX Manager experiment window: basic and advanced options

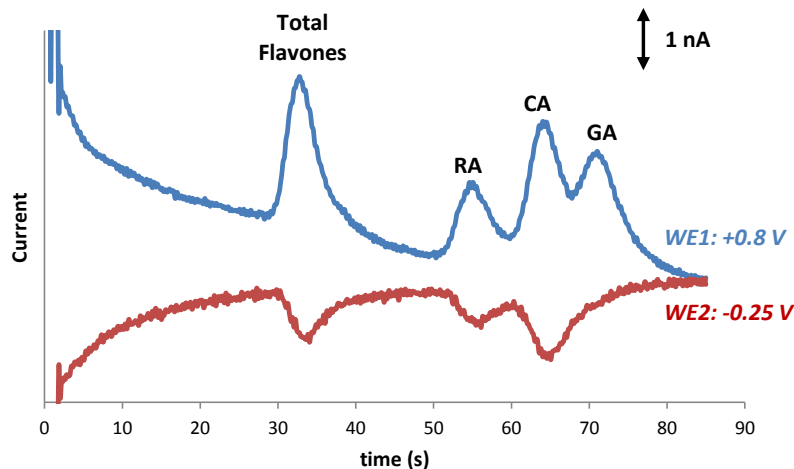


MicruX Manager results window



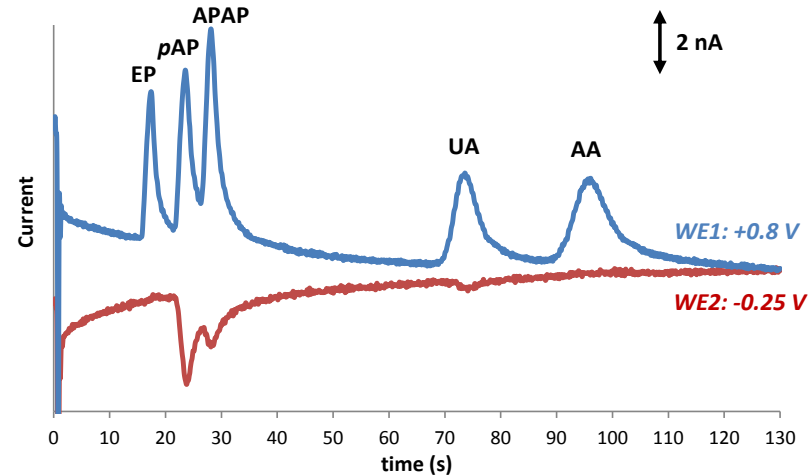
Separation of different compounds in food and clinical field performed using MicruX[®] iHVStat instrument and different microchips electrophoresis.

:: MCE-SU8-IDA-Pt005T



Electropherograms for the separation of flavones, rutin (50 μM) and quercetin (50 μM), and polyphenolic acids, RA (100 μM), CA (100 μM) and GA (100 μM) using a SU-8/pyrex single-channel microchip with an interdigitated array microelectrode. Conditions: Running buffer: 20 mM MES-NaOH pH = 5.0; $V_{inj} = +850$ V for 5s, $V_{sep} = +900$ V.

:: MCE-SU8-IDA-Pt005T



Electropherograms for the separation of 50 μM EP, 50 μM pAP, 100 μM APAP, 125 μM UA and 250 μM AA using a SU-8/pyrex single-channel microchip with an interdigitated array microelectrode. Conditions: Running buffer: 20 mM MES-NaOH pH = 6.0; $V_{inj} = +750$ V for 3s, $V_{sep} = +1000$ V.

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