

# TriSep<sup>®</sup> — 3000

Pressurized Capillary Electrochromatography

**Perfect combination of high performance liquid chromatography and capillary electrophoresis**



# Trisep<sup>®</sup>-3000 modules



## UV/Vis Detector

Zero dead volume, dual wavelength detection, full wavelength scanning, excellent S/N ratio performance.

## Thermostat

- Liquid-cooled and design for capillary.

## Solvent Delivery System

- Stable flow and pressure at Low Flow Pulsation.
- Effectively eliminate bubbles in the system.
- Binary gradient elution can be performed.

## High Voltage Power Supply

- Digital voltage control mode.
- Accurate control, stable performance, safe and reliable, easy to operate.
- Designed for Electro-Microseparation system (CEC, pCEC).
- Enable time program control.

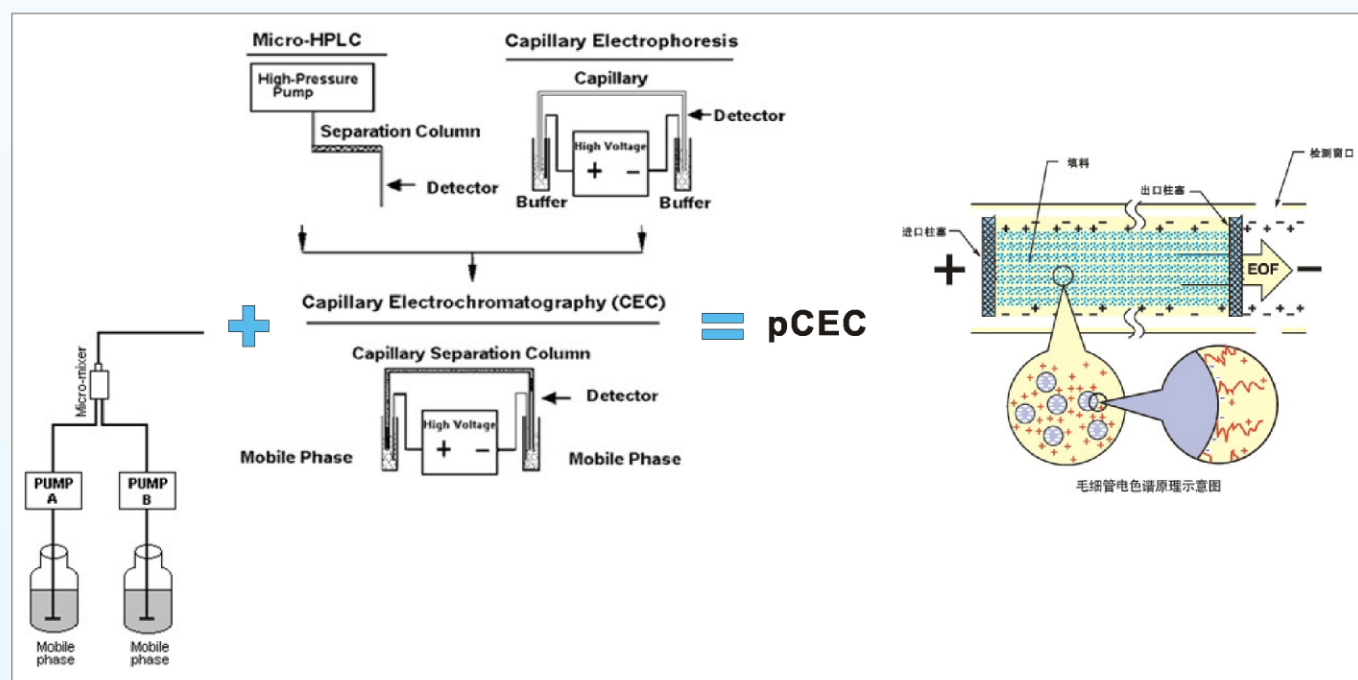
## Micro Fluidic Control

- Stably delivery micro-level flow (several hundred nanoliter).
- Hydraulic and voltage pressure can be applied simultaneously or independently.

# Capillary Electrochromatography --- New way in micro-separation

## Dual Mechanism of Separation

In pressurized capillary electrochromatography (pCEC), the retention mechanism is based on both chromatographic partition and electrophoresis. Thanks to the contribution of the dual mechanism, pCEC dramatically enhances the separation selectivity, compared to the traditional HPLC and CE.



## Ultra Performance in Separation

- Ultra Efficiency
- Ultra Speed
- Ultra Peak Capacity
- Ultra Reproducibility

## All in one

Modular design and flexible combination make it possible to run pCEC,  $\mu$ -HPLC and CE on the same TriSep<sup>®</sup>-3000 pCEC system.

## Friendly in Coupling with Different Detectors

Combined with on-column technologies, TriSep<sup>®</sup>-3000 pCEC system could be readily coupled with UV, LIF, EC, MS and other detectors. Currently, pCEC technology is widely applied in various fields.

## ElectroPak<sup>®</sup> Capillary Column

Electro Pak<sup>®</sup> capillary columns are packed columns with patented electro-packing technologies (US: 5453163). They are packed with various categories packing materials, such as C18, C8, Phenyl, CN and Si etc. Several particle ranging from 1.5  $\mu$ m to 5  $\mu$ m and Inner diameters ranging from 50  $\mu$ m to 530  $\mu$ m can be offered. Some special specifications can be customized according to the clients' requirements.

## Optional Detectors

- UV/Vis
- $\mu$ ECD
- $\mu$ LIF
- MS
- $\mu$ ELSD



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