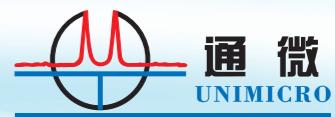




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# Preparative HPLC system

## EasySep®-3050

*Solution of sample purification*



SEPARATION  
HAS NEVER BEEN SO SIMPLE

## Product introduction

### Company Profile

Unimicro Technologies, Inc. was founded in 1996 in California, USA and maintains its principal office in Pleasanton, California. As a high-tech US company situated in the Silicon Valley, Unimicro has focused its efforts on chromatographic separation and analysis and has made great success, especially on micro-separation field. Unimicro has successfully developed the electrokinetic High Performance Liquid Chromatography (eHPLC or pCEC) and the fully automated quantitative Capillary Electrophoresis (qCE), which leads the world in micro separation field.

Unimicro has set up 3 solely owned subsidiaries in China and has made great achievements in the market of China. Unimicro offers the wide choices of products in liquid phase separation, including eHPLC, qCE, CE, HPLC and prep-HPLC instruments and HPLC columns, along with several kinds of detectors such as Evaporative Light Scattering Detector (ELSD), Fluorescence Detector (FLD), Diode Array Detector (DAD) and Laser Induced Fluorescence Detector (LIF).

The mission of Unimicro is to provide excellent service to its customers. Meeting and exceeding customer expectations are the ultimate goal and the company will not tolerate anything less than the total satisfaction of its customers.



With totally new appearance and comprehensively improved hardware, preparative HPLC system EasySep®-3050 can perfectly transfer the analytical method to preparative one and get nanogram to gram sample with excellent purification effect.

EasySep®-3050 is much more flexible due to the modular design. It consists of delivery system, injection system, detector, fraction collector and professional workstation, which can separate and purify the sample fully automated.

## Preparative HPLC system EasySep®-3050



### PUMP

- » Flow rate: 0~50 mL/min
- » The plunger can be cleaned on line with a peristaltic pump to prolong the service time of the instrument.
- » Multiple safety precautions( slow start and slow stop, leakage alarm, overpressure protection, low liquid level alarm) to ensure the smooth progress of the experiment.



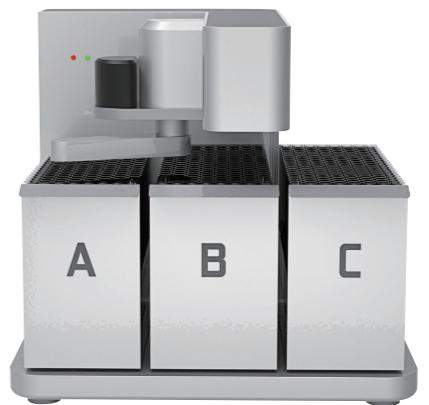
### Injection system

- » Automatic and manual injection is optional. The experiment can be done, unattended.
- » With manual injection, various quantitative loops are optional to meet different purification requirements.
- » Automatic injection holds 24 vials of 10 mL and uses a 2.5mL syringe. Needles, tubing and sample loop have larger capacity and allow rapid injection of sample volumes up to 10 mL.



### UV/Vis Detector

- » It can detect sample at 2 wavelengths simultaneously due to the dual optical path design.
- » Static wavelength scanning and programmed wavelength scanning helps to meet detection requirements of different samples.
- » It has digital signal and analog signal output, which makes it friendly and compatible with third-party software.
- » Deuterium lamp / tungsten lamp is optional. Wavelength ranges from UV to visible light, greatly broaden the application field.



### Fraction Collector

- » A variety of collection containers are optional, such as tubes, flasks and microplates with the volume ranging from 1.5 mL~250 mL.
- » Peak / time / volume / manual collection are optional, suitable for the purification of complex components.
- » High-precision Tee valve, unique bottle switching technology and independent waste channel, ensure no leakage during bottle switching.

## Unimicro ChromStation Chromatographic workstation



Comply with regulations; Easy to use;  
Equipped with database

Completely conform to the FDA 21 CFR Part 11  
Advanced data processing algorithm

Easy-to-use operation procedure  
Provided with functions such as strict authority  
management and audit trail

Built-in database management ensures the data security and reliability.  
Fully control every unit of HPLC, comprehensively enhancing the work efficiency.

Chromatographic workstation is the key to improve work efficiency, lower the cost, achieve reliable results in laboratory. Unimicro's latest Chromatographic workstation, Unimicro ChromStation, is provided with functions such as controlling workstation every unit of HPLC, built-in database management, data collection, data processing, printing reports etc. The unique chromatographic workstation software can completely comply with FDA CFR 21 part 11. Besides, Unimicro ChromStation Chromatographic workstation is equipped with a special built-in data processing tool, which can make the work easier in laboratory.

## Whole-process solution for laboratory sample purification

- » With wide flow range, nanogram to gram sample can be obtained easily.
- » Dual wavelength UV/Vis detector with wavelength ranging from 190-800 nm is available and tungsten lamp is optional.
- » Various of detectors(UV/Vis, DAD, FLD, ELSD, MSD) are available to expand the applications.
- » Autosampler and fraction collector are available. The purification can be done while the users are absent.
- » We provide a wide choice of preparative HPLC columns.
- » 50 mL/min (EasySep®-3050 series), 100 mL/min (EasySep®-3100 series) are available.

## Accessory products recommended

### Preparative HPLC columns

We provide a wide choice of cost-effective preparative HPLC columns



### Evaporation light scattering detector(ELSD)

ELSD is a kind of universal detector, which can detect any sample with lower volatility than the mobile phase. ELSD has been widely used to detect the carbohydrate, lipid, fatty acid, amino acid, medicine and polymer, specially to detect those active traditional Chinese medicine ingredients without UV absorption.

