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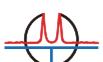
 Help customers to develop  
analytical methods and offer  
technical support & service.

# Evaporative Light Scattering Detector Model UM 5800 Plus

Newly released

Dedicated to analysis of compounds without UV absorption  
Leader in China



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UNIMICRO

# About Unimicro

## Company Introduction

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, since its inception, Unimicro has focused its efforts on chromatographic separation and analysis and has made great success on Chromatography industry, especially on micro-separation field. Unimicro has successfully developed the electrokinetic High Performance Liquid Chromatography(eHPLC) 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 China . We offer the wide choices of products in liquid phase separation, including CE, HPLC and prep-HPLC instruments and HPLC columns, along with several kinds of detectors such as Evaporative Light Scattering Detector (ELSD) and Laser Induced Fluorescence (LIF).

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

## Company Honor

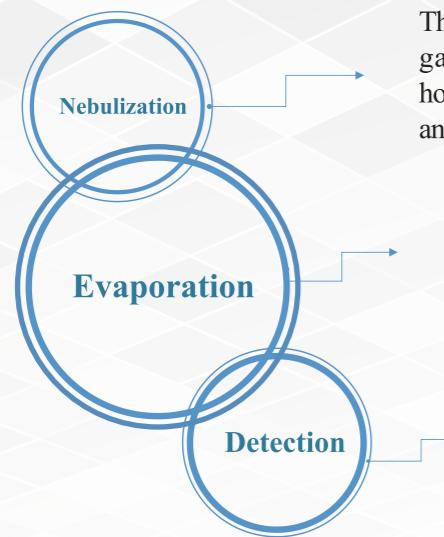


BCEIA Gold Award

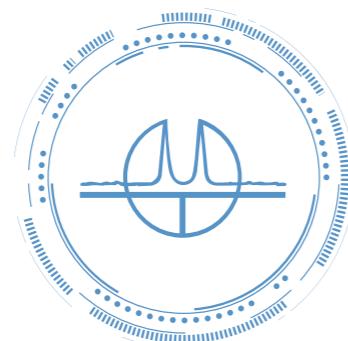
Shanghai Science and Technology Advancement  
Award: First Place

National Key and New Product Award  
International standard performance

## Principle



Universal detector, can detect any sample with lower volatility than mobile phase. There is no need for any chromophore.



Carrier gas helps to improve the sensitivity and keep detection cell clean.

Precise temperature control ensures precise detection.

Compatible with various HPLC solvent and gradients, no solvent peak interference.

Low temperature ELSD, sensitive to thermal-instable and semi-volatile compounds.



## Unimicro



### Evaporative Light Scattering Detector Model UM 5800 Plus

Separation, has never been so easy

UM 5800 Plus is a kind of universal detector, which is newly made with great efforts by Unimicro. It can be used to detect any samples regardless of with or without chromophore, as long as their volatility is lower than the mobile phase.

It has been widely used in pharmaceutical field (such as the detection of saponins, terpenoids, aminoglycoside, lipid, alkaloids, sugar, and inorganic salts and other medicine effective components), food field (such as the polysaccharide in edible fungus, sugars and sugar alcohols in drinks and dairy products, esters and fatty acid in grain and oil), polymer and surfactant in chemical products, etc.

UM5800 Plus can output both digital signal and analog signal and can be coupled with any HPLC system with any brand, from analytical HPLC to MPLC to preparative HPLC.

## New Features



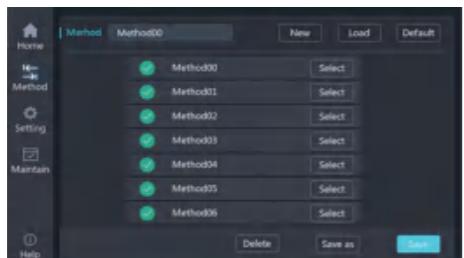
### Digital signal

It has both digital and analog signal ( $\pm 2.4$  V) output and is compatible with HPLC from different manufacturers.



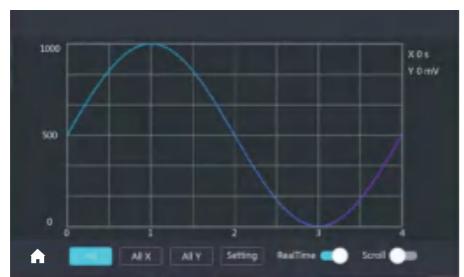
### Signal amplification

The signal amplification can be adjusted with 7 levels.



### Program storage

100 methods can be stored and the stored methods can be called when needed.



### Chromatogram display

The chromatogram can be displayed on the touch screen in real time.



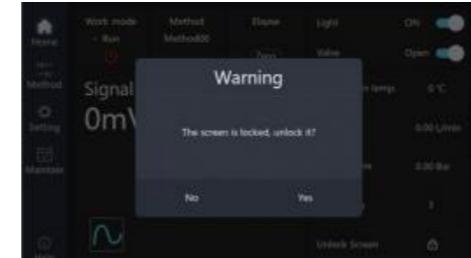
### Security improvement

When start up, multiple parameters will be self-tested. The temperature, pressure, flow and other abnormal situations are monitored in real time with sound and light alarm.



### Energy saving

Standby and operating mode can be switched freely to reduce the energy consumption.



### Screen lock

The screen can be locked by password to avoid mis-operation.

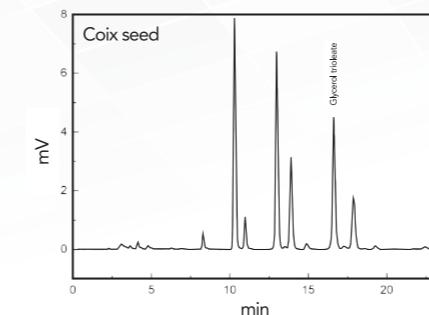


### Workstation

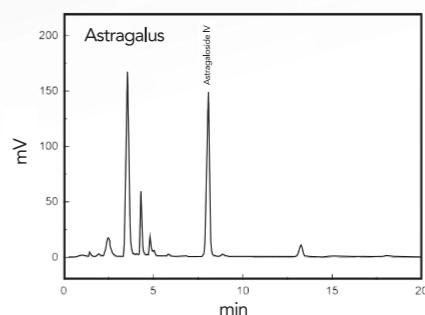
The parameters can be fully controlled by the workstation and is totally comply with FDA 21 CFR Part 11.

## Applications

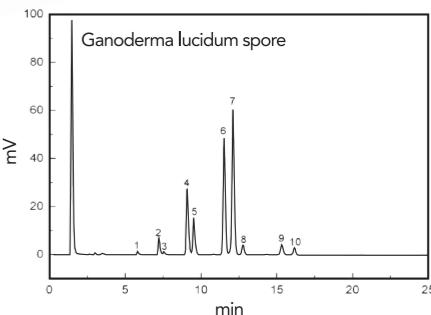
### Pharmaceutical field



/ Chinese Pharmacopoeia /

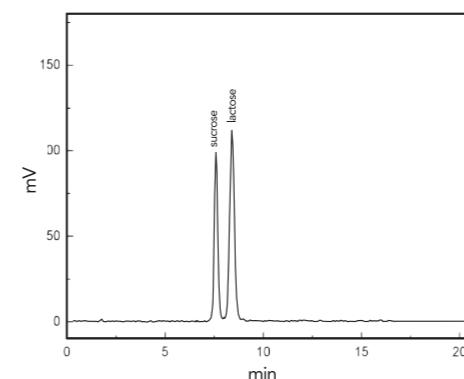


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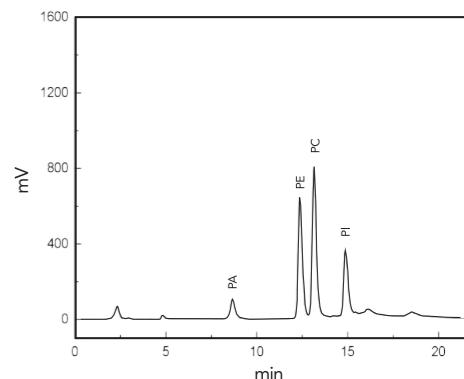
/ Chinese Pharmacopoeia /

### Food field



GB 54135-2010

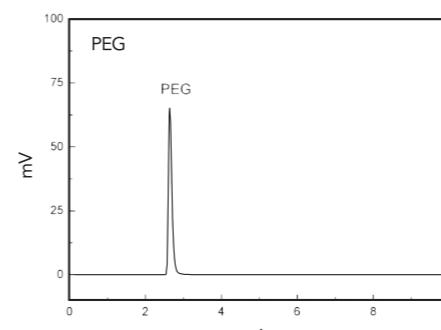
Analysis of lactose and sucrose in infant food and dairy products



GB / T 35867-2018/ISO11707:2009

Analysis of phospholipid in Lecithin by HPLC-ELSD

### Chemical field



GB / T 17830-2017

Determination of PEG content in polyethoxylated nonionic surfactant

