

KROMATOGRAFİ

BIOSTAR

Ahmet Öğretmen

CHROM PERT



Solutions for Lab
Professionals

Company Profile

Founded in 2010, ChromXpert is Analytical Laboratory instruments and consumables sales company. ChromXpert's Premium line of products includes HPLC and UV-VIS Spectrophotometers, also most needed spectroscopy and chromatography consumables such as Quartz Cuvettes, Syringe and Membrane Filters, Vial/Cap/Septa, Quechers Sample Preparation Kits etc.

ChromXpert use their contracted manufacturing sites for high quality products. Manufacturing facilities has ISO9001:2000 Quality Management System and ISO14001:2004 Environmental Management System. All products are CE Certified and tested according to strict quality rules after production.



ChromXpert aims becoming one of most important solution provider for your laboratories and analysis requests.

CHROMXPERT

Quality Certificates



CHROMXPERT

Iso&Ce Certificates



CHROMXPERT

LC-X30 Series



LC-X30 HPLC System



Excellent Performance

- 9000PSI working pressure
- 2.5AU Linearity range
- 100Hz Sampling rate
- Rapid analysis achievable
- More efficient, less consume

Flexible Configuration

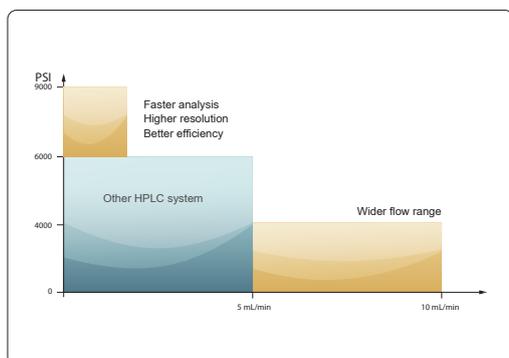
- Modularized design
- Multi-channel pumps
- Alternative injection modes
- Various detectors
- Custom combination

Professional Service

- Instrument installation & various training courses
- Application & regulatory compliance service
- Remote diagnose & prompt response
- Preventive maintenance & service plans
- Proactive and comprehensive service

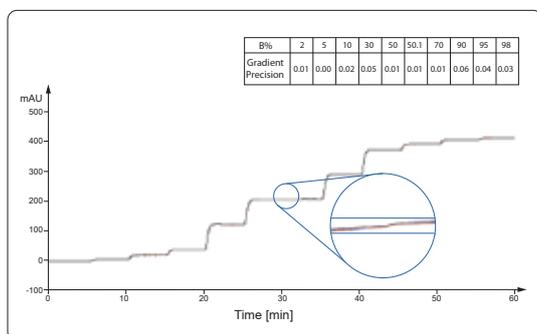
LC-X31 Series

High Pressure Pump



Precise Flow Rate & Gradient

LC-X31 serial high pressure injection pump could monitor the pressure status by its digital signal processor and adjust the motor operation status based on working parameters and solvent type. This real time feedback mechanism plus the high performance proportional valve realized the steady flow output as well as precise .

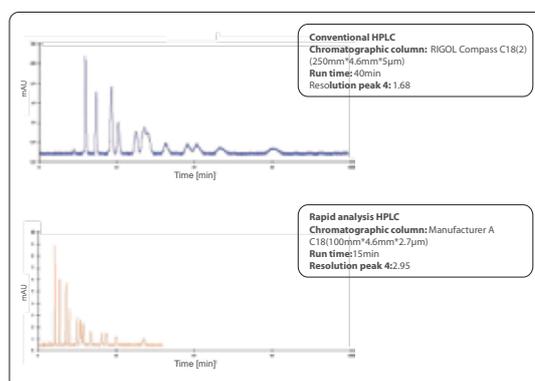


Column: back pressure tube (1000PSI)
Mobile Phase A: 1% isopropanol aqueous solution
Mobile Phase B: 0.2% acetone/1% isopropanol aqueous solution
Flow rate: 1.0ml/min
Temperature: room temperature

Performance Highlights

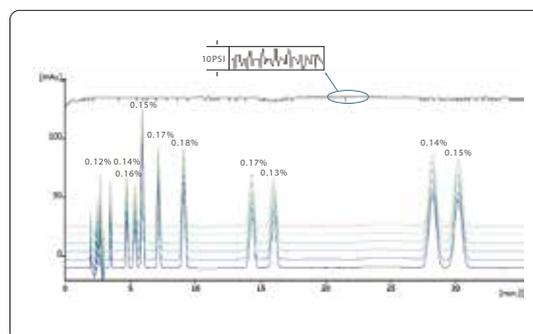
High Pressure Limit

LC-X31 serial high pressure pump could reach 9000psi (62Mpa) working pressure with the flow rate up to 10mL/min. This high performance extend the application field from normal HPLC to Fast HPLC. With the help of 100Hz detecting and high precision sampling, you can take advantage of small piratical size column and reduce solvent consumption.



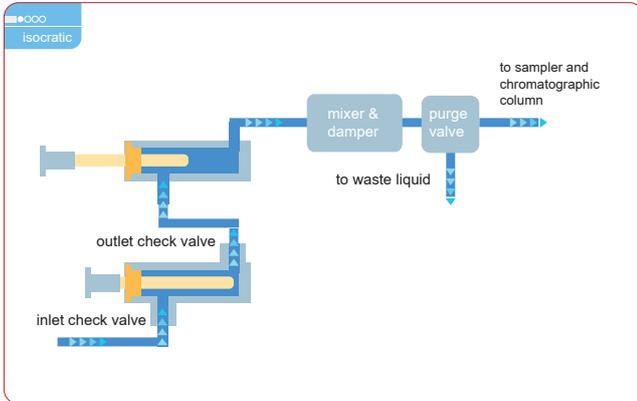
Stable Pressure

LC-X31 serial high pressure pump's pressure pulsation could be controlled under 10psi with best qualitative repeatability based on its state of art patent design, precise engineering and strict quality control.

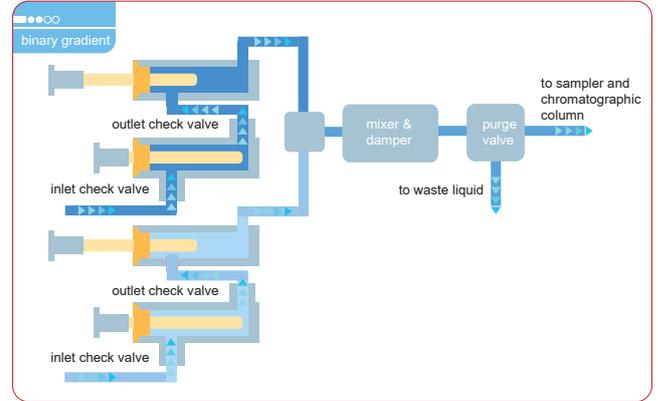


Working Principle

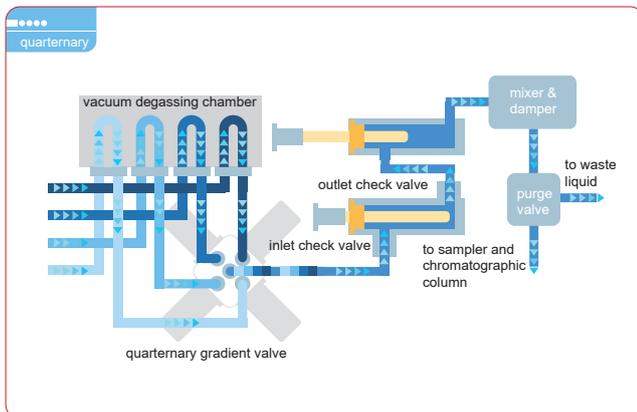
LC-X31 serial high pressure pump provides isocratic, binary and quaternary model base on request.



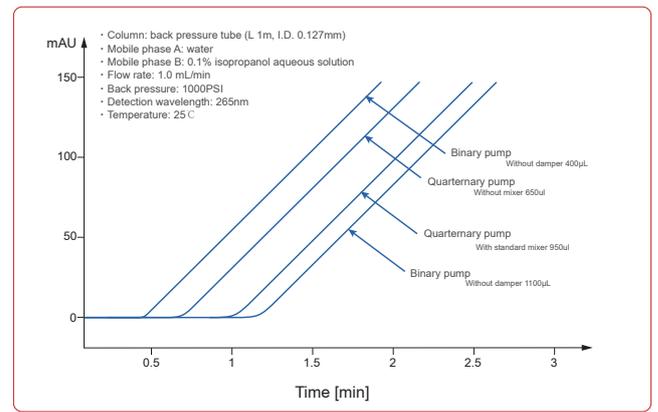
- Isocratic pump for regular QA/QC usage



- Binary pump for high-throughput & fast analysis



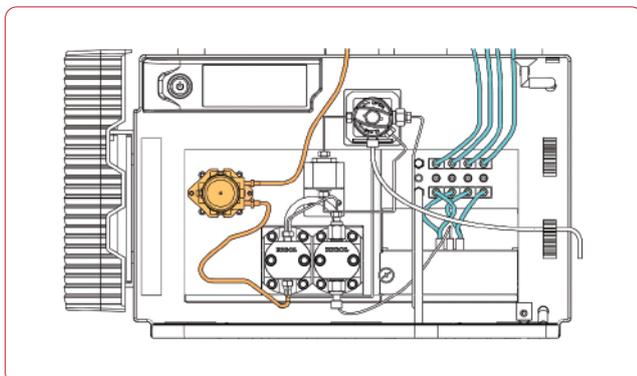
Quaternary pump for pharmaceutical, food and environmental test.



- Lower delay volume enables a cleaner & faster response to the gradient changes.

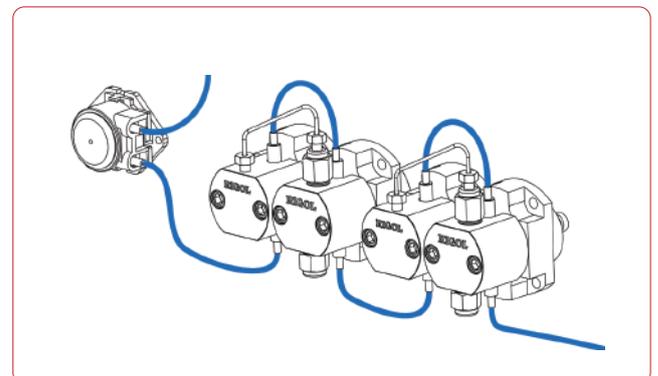
Special Design

Integrated Design



- LC-X31 Quaternary gradient pump combine online degasser and seal wash function. This integrated design reduce delay volume, save bench space and simplify maintenance procedure.

Built-in Seal Wash Function



- Seal wash is a standard parts in LC-x30 serial HPLC system. The part could flush the salt crystallization on the piston and extend the service life of sealing rings.

LC-X33 Series

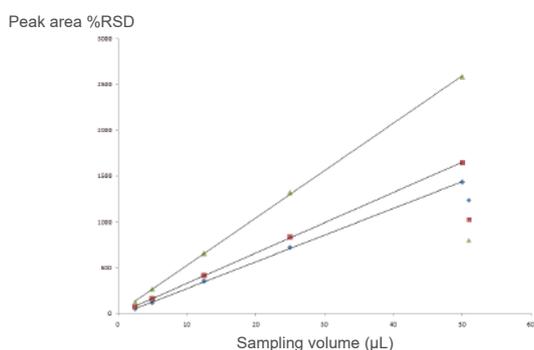
Autosampler



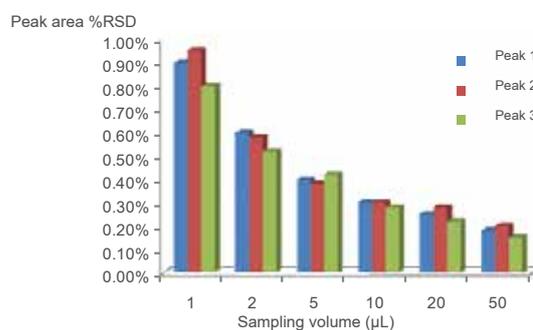
Performance Highlights

High Precision

LC-X33 autosampler delivers high injection accuracy of 0.3% RSD, thanks to its high precision machining parts and advanced control algorithm. It also employs a design of changeable sampling loop, which extend linearity range and meet the need of more applications.



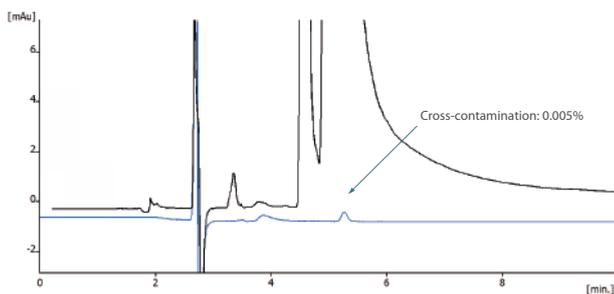
sampling volume from 2.5 to 50µL, correlation coefficients of the 3 compounds are all 0.9999



Peak-area repeatability of 3 compounds with different sampling volume (RSD%)(n=6)

Low Cross Contamination

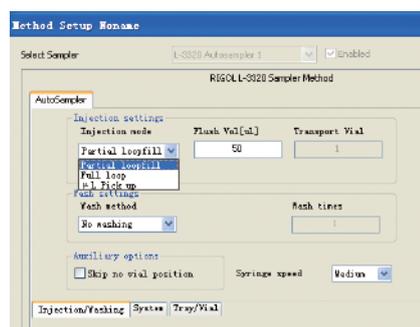
The special design of needle washing assembly could clean interior and outside of the sampling needle separately, combining the patented sampling needle design and extra precision inner and outer polishing technology, it could reduce the carryover of sample and avoid cross contamination.



Chromatographic column: C18(250 mm x4.6mm x 5µm)
Mobile phase: MeOH/Water(90/10)
Sampling volume: 10µL
Cross-contamination: 0.005%(based on naphthalene-methanol solution)

Multi Injection Mode

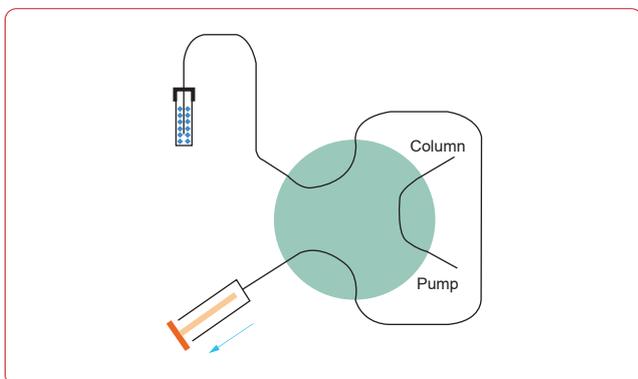
LC-X33 support three sampling mode including full loop, partial loop and micro pick-up injection for different requires. It could be easily choice in the method editor without hardware replacement.



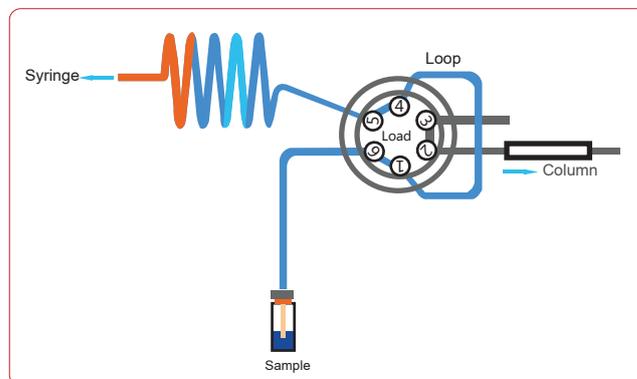
In the Method Setup interface you can simply choose to click a different injection mode, then the replacement is completed.

Working Principle

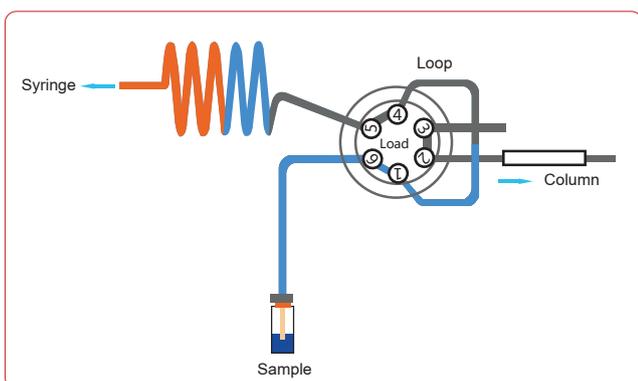
Three Sampling Mode



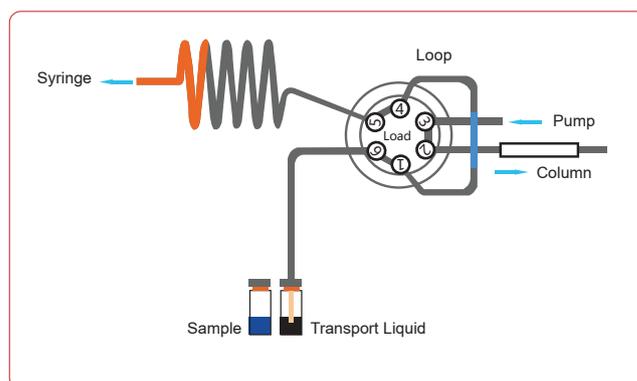
- LC-X33 AutoSampler adopt suction sampling principle with simple & reliable structure to reduce delay volume, it divided into triple specific sampling modes.



- Full loop injection possess best sampling precision, with the support of changeable sampling loop, this mode fulfill most requirements.



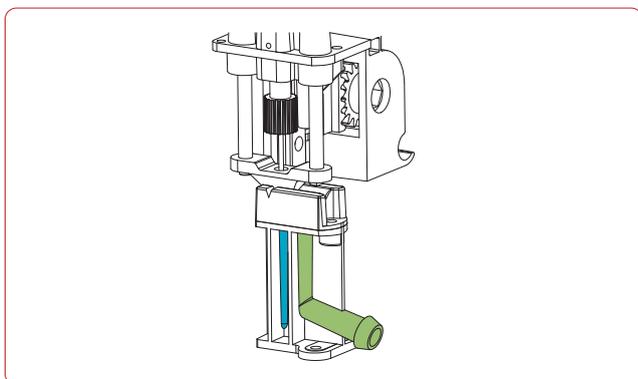
- Partial injection has the best and most flexible performance, you can set the injection volume to match the application.



- Micro Pick-up mode was suitable for small quantity and precious sample, the injector will only pick up the setting volume sample and use the suitable

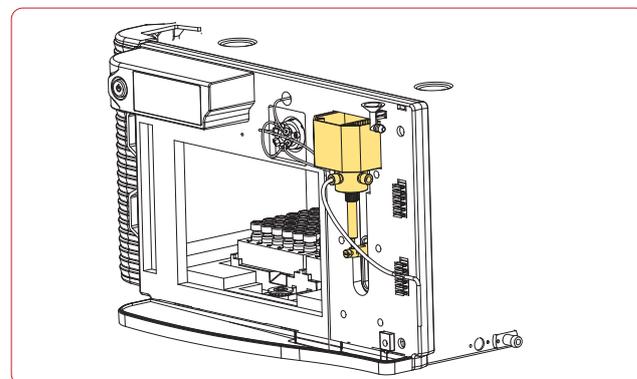
Special Design

Build-in Needle Wash Assembly



- The build-in needle wash assembly has two washing positions for inter and outer needle wash separately, this double wash mechanism reduced the carryover significantly.

Front Access to Maintenance Parts



- All maintenance parts could be reached on the front side, which simplify the service procedure and lower maintenance cost.

LC-X32U UV-VIS Detector



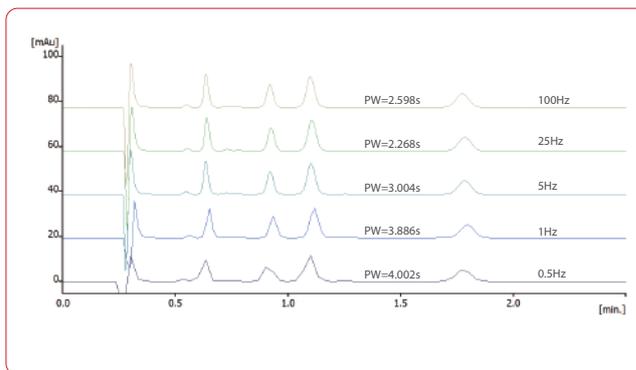
Performance Highlights

High Sampling Rate

LC-X32U UV-VIS detector realized 100 Hz sampling rate, which make the detection of narrow peak with width lower than 5s possible. This high sampling rate also helps to record the chromatography peak accurately and get the best resolution.



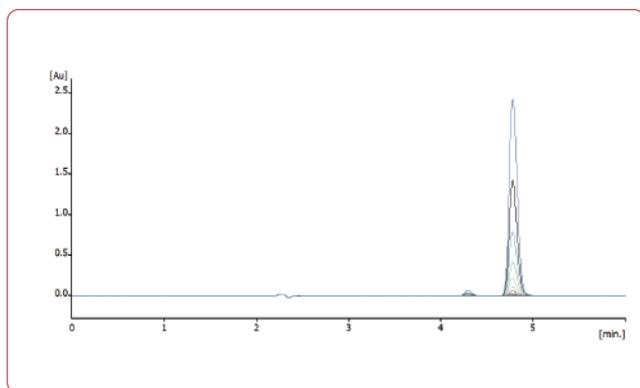
- Proprietary optical design for improved signal to noise ratio.



- 100Hz data sampling rate means that detection of peaks sharper than 5s wide is possible with excellent separation resolution.

Wider Linearity Range

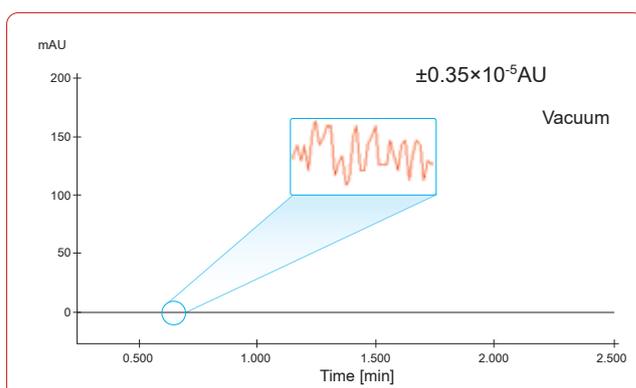
Adopt unique light path design, multi color optical filter and high quality grating, the detector realized more lower stray light, and extend the linearity range to 2.5AU.



- The detector keeps excellent linearity up to 2.5 AU absorbance

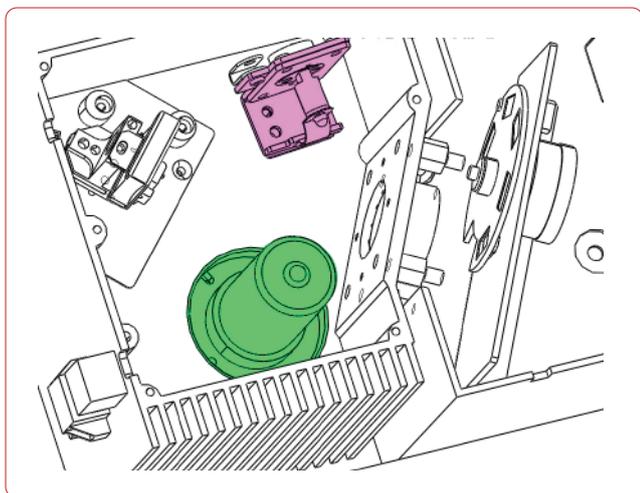
Low Noise

LC-X32U have a high performance SNR by the patent electric and structure design.



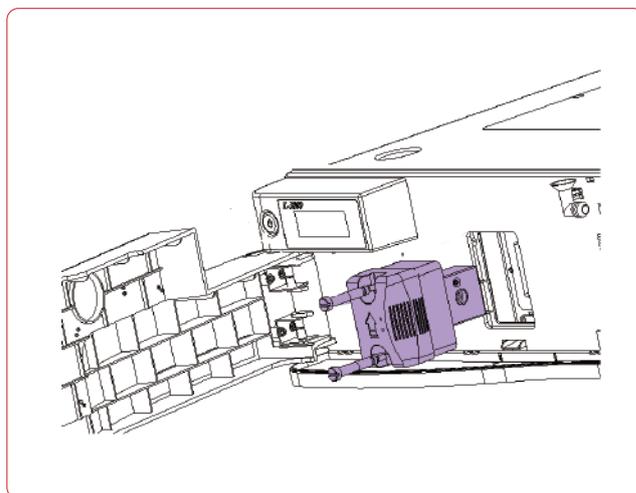
Working Principle

Dual Lamp Design



- LC-X32U UV-VIS detector employ a dual lamp design, the deuterium & tungsten lamp enable the detector to cover both UV and visible range and fulfill the visible section detection and cover more application scope.

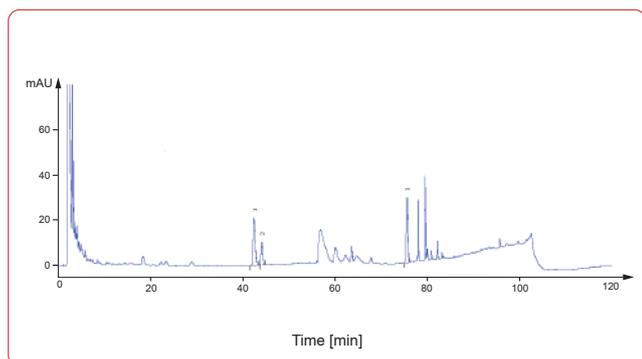
Easy Maintenance Flow Cell



- The flow cell adopt modular design, it could be taken off by only 2 screws removing, very easy to maintenance.

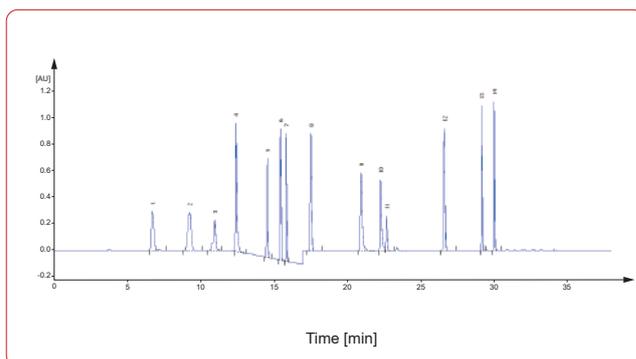
Application Notes

LC-X32U shows great stability, especially in those applications with long run time and low detecting wavelength, this advantage can be perfectly shown by the 120min run of Chinese medicine Ginseng.



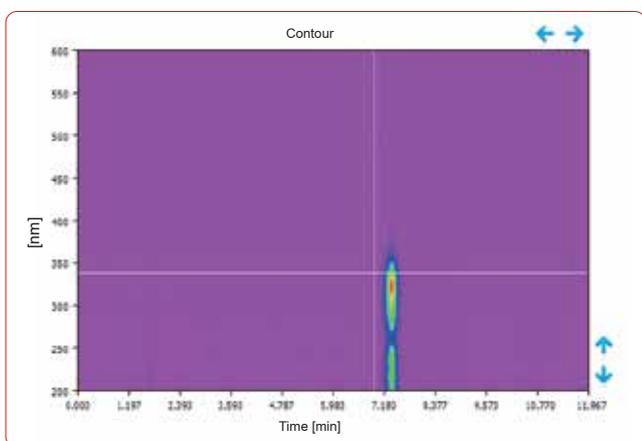
Chromatographic column: Compass C18(250mm*4.6mm*5 μ m)
Mobile phase: water/acetonitrile; gradient elution
Flow rate: 1.0mL / min
Column temperature: 40C
Detection wavelength: 203nm
Injection volume: 10 μ L

LC-X32U can run wavelength program, which means switching detection wavelength during acquisition. This feature realized the programmable detection of several analytes with different chromophore.



Chromatographic column: C18(100 mm*4.6mm*2.7 μ m)
Mobile phase: 20mM aqueous ammonium acetate/acetonitrile; gradient elution
Flow rate: 1.0mL / min
Column temperature: 40C
Detection wavelength: wavelength time program
Injection volume: 20 μ L

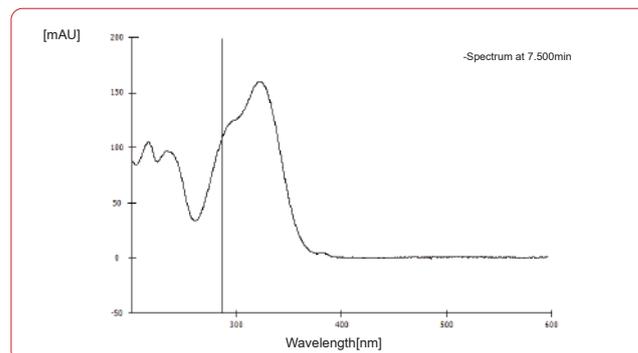
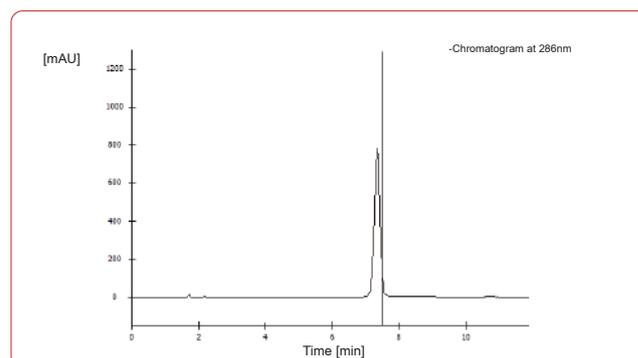
LC-X32P Diode Array Detector



Performance Highlights

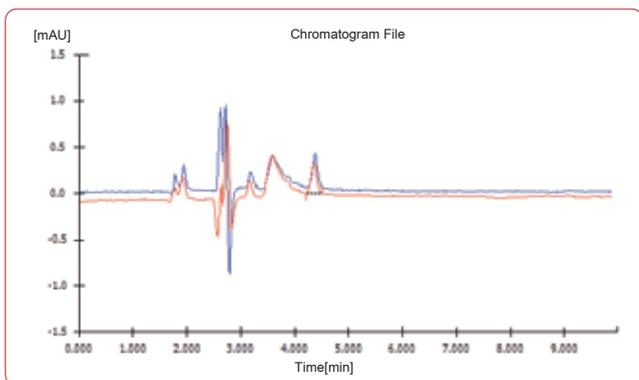
High Resolution Full Spectrum Scanning

LC-X32P has a 1024 diode array sensor with pixel resolution of 0.6nm. Combine with high quality optical grating, it could record full high resolution spectrum while chromatogram recording.



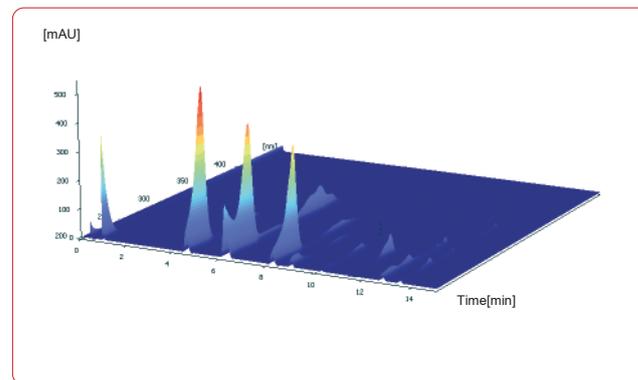
High Sensitivity

LC-X32P realized $\pm 0.6 \times 10^{-5}$ AU noise level by its advanced optical and electric design, and gain more lower detection limit.



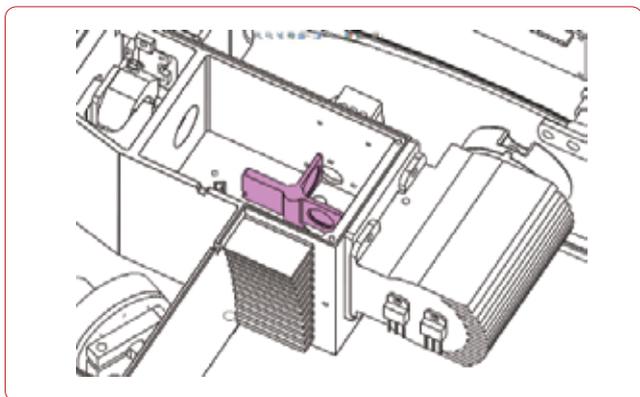
High Sampling Rate

Chromxpert remains and advances the high sampling rate character of UV detector, and keep 100 Hz sampling rate with full spectrum scanning. Users can acquires high resolution spectrum, and also could extract chromatogram for quantitative analysis.



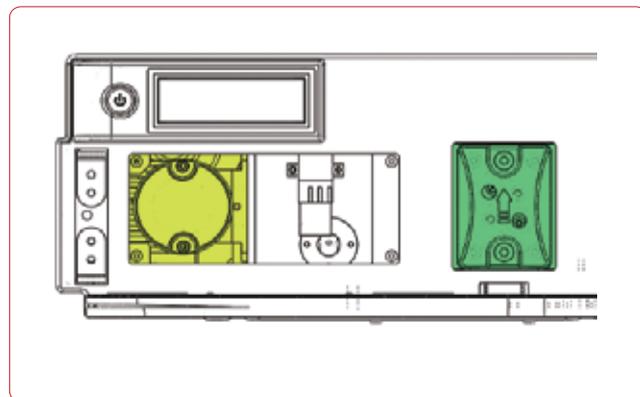
Working Principle

Easy Calibration Function



- LC-X32P could realize full spectrum calibration by mercury lamp standard emission lines, and ensure the instrument stable and reliable by double inspecting the wave length accuracy via deuterium lamp characteristic peak and build-in holmium oxide filter.

Easy Accessed Lamp



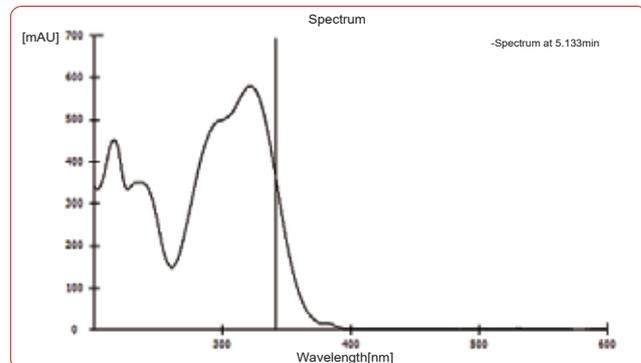
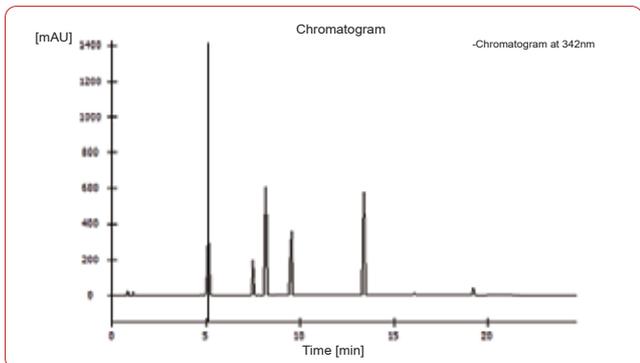
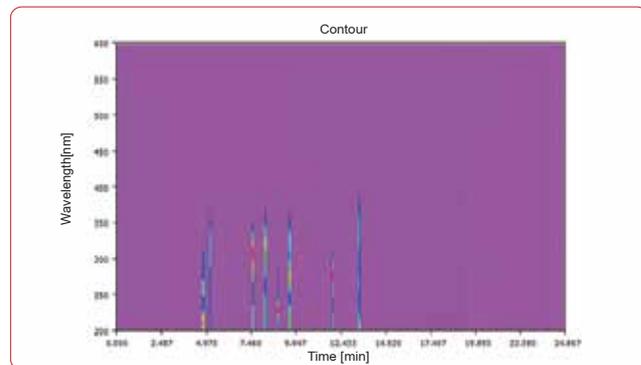
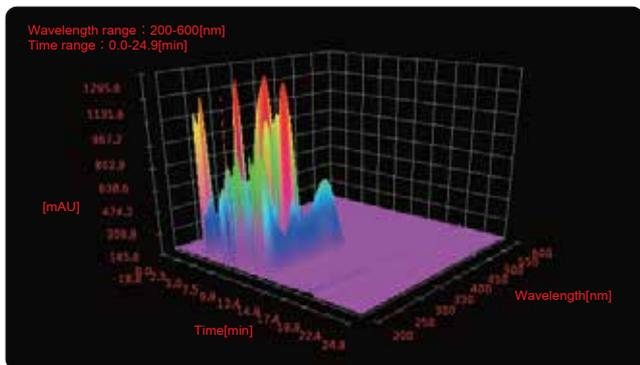
- LC-X32P DAD adopt light prepositioning design, and equipped with easy disassembling flow cell. Client could do the lamp replacing independently and then reduce the future maintenance cost.

Applications

The chromophore of the eight phenols in olive oil varies a lot, those analytes must be monitored at different wavelength and the retention time is similar, those realities makes it impossible to analysis it by UV-VIS detector. DAD possess the ability of multi-wavelength detection and full spectrum acquisition, perfect for qualitative and quantitative analysis.

Chromatographic conditions

- Chromatographic column:** A C18(100mm*4.6mm*2.6μm)
- Mobile phase:** 0.2% aqueous phosphoric acid/acetonitrile; gradient elution
- Flow rate:** 1.0mL / min
- Column temperature:** 28°C
- Injection volume:** 5μL



LC-X32R Refractive Index Dedector



Performance Highlights

Broad Application

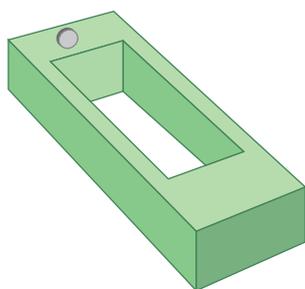
Detection is based on a universal property of all analytes and does not require the presence of a chromophoric group, electroactive group, etc.

Stable Performance

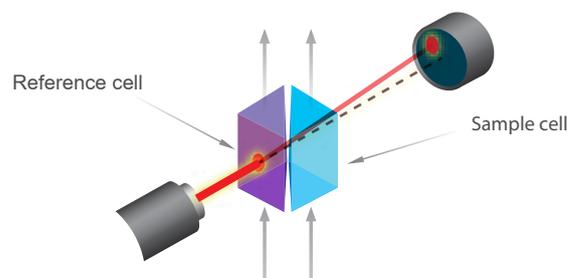
Base line will be rapidly balanced by the inner temperature control system. And prevent the influence due to the outside temperature floatation.

Easy Operation

Preposition operation panel will help you set the instrument in several steps, and no need to revise the parameter during the operation. This will reduce the learning cost and enhance the efficiency.



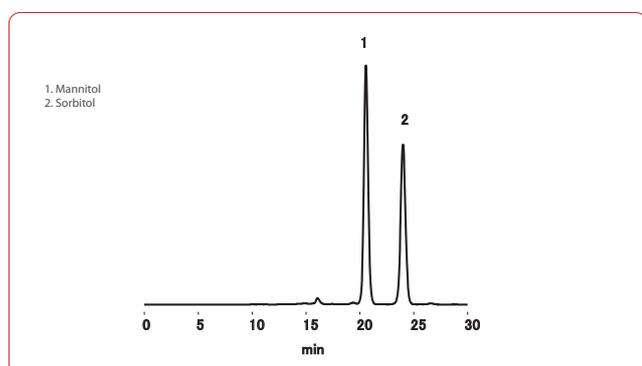
LC-X32R RID achieve better stability and repeatability by inner temperature control system.



LC-X32R RID can detect all analytes that have different refractive coefficient in the mobile phase.

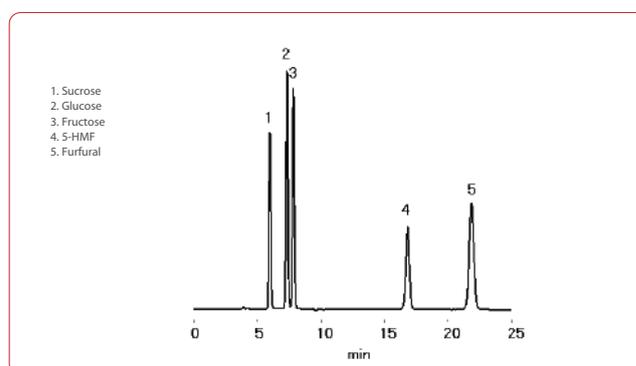
Applications

Analysis of Mannitol according to EP method



Chromatographic column: EP SC1011-7F (7.8mmI.D.x 300mm)
Mobile phase: Water
Flow rate: 0.5mL/min
Column temperature: 85 °C

Analysis of Sugar and Furfural



Chromatographic column: SUGAR KS-801 (8.0mmI.D.x 300mm)
Mobile phase: Water
Flow rate: 1.0mL/min
Column temperature: 80 °C

LC-X32E Evaporative Light Scattering Detector



Performance Highlights

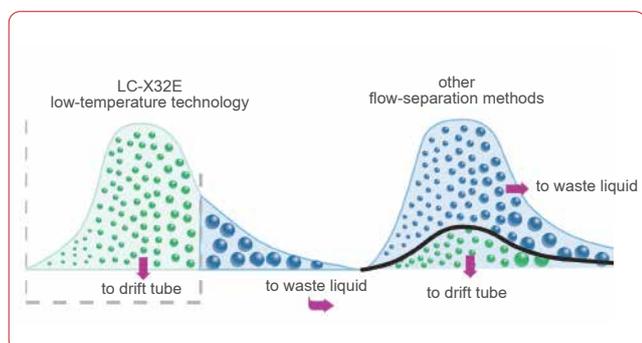
Low-Temperature Evaporation

SEDEX Automated Gain Adjustment (SAGA)

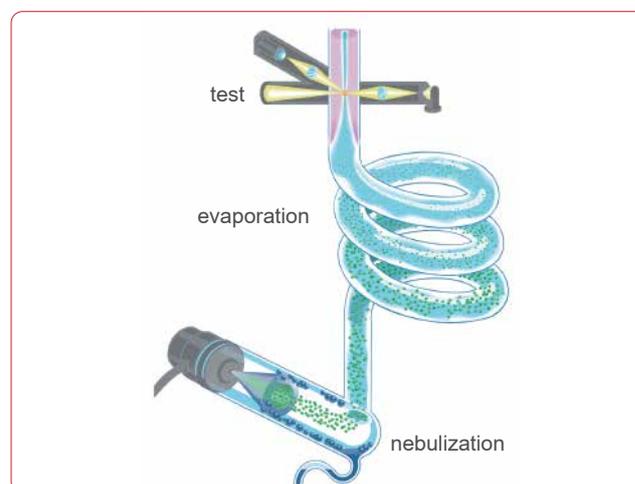
SAGA is an innovative gain control available when it is driver-controlled by software, SEDEX LC automatically adapts the gain setting to avoid any off-scale saturation of the detector.

Easy Maintenance

A single and dedicated SEDEX LC HPLC nebulizer and an innovative cell design minimize band broadening. This nebulizer covers the flow rate range from 100µL/min to 2.5mL/min and can be readily and quickly mounted and dismounted.

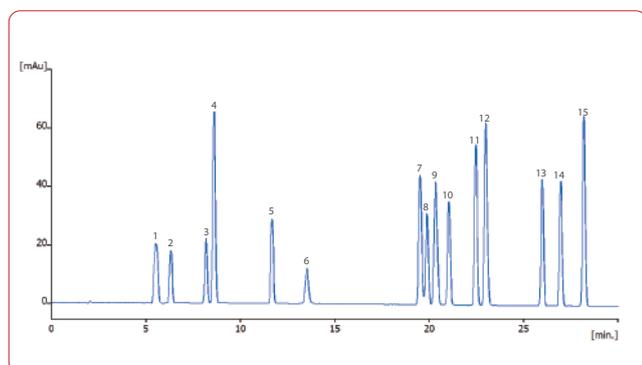


- With low-temp evaporation technology, the LC-X32E can dramatically reduce baseline noise to improve sensitivity.



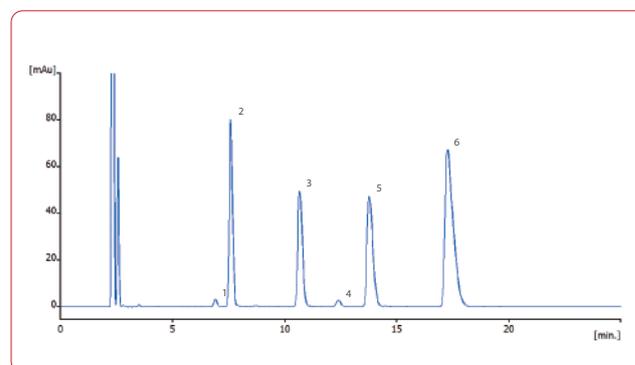
Applications

Determination of 15 underivatized amino-acids via HPLC-ELSD



Chromatographic column: AA(250 mm x4.6mm x 5µm)
Mobile phase: 0.2% Heptafluorobutyric Acid /MeOH; gradient elution
Temperature of drift-tube: 40 C
Increment: 7

Determination of gentamycin sulfate injection via HPLC-ELSD



Chromatographic column: AA(250 mm x4.6mm x 5µm)
Mobile phase: 0.2mol/L trifluoroacetic acid solution/MeOH (92/8)
Temperature of drift-tube: 50 C
Increment: 6

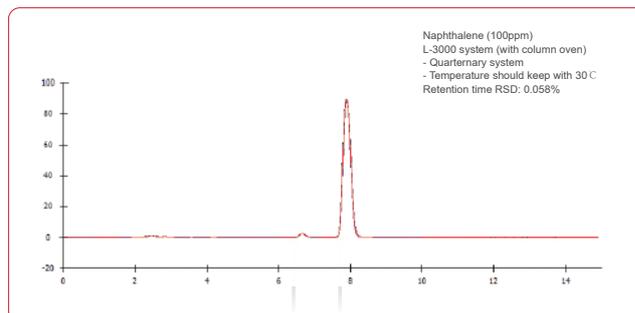
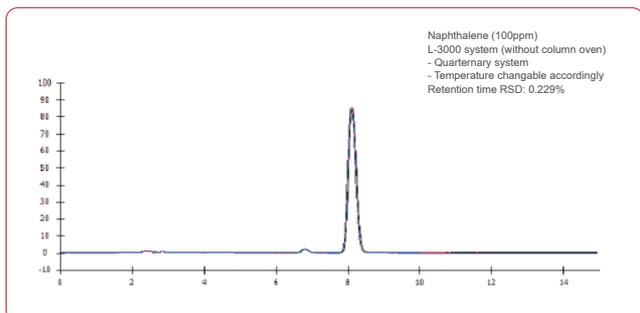
LC-X34 Column Oven



Performance Highlights

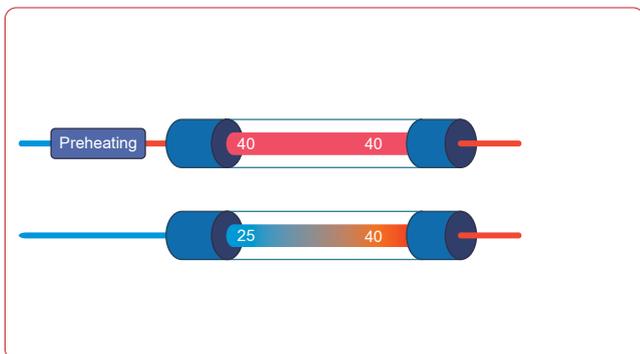
Excellent Testing Results

LC-X30 HPLC system work with LC-X34 column oven, which could minimize the impact of environmental factors and then guarantee the superior results.



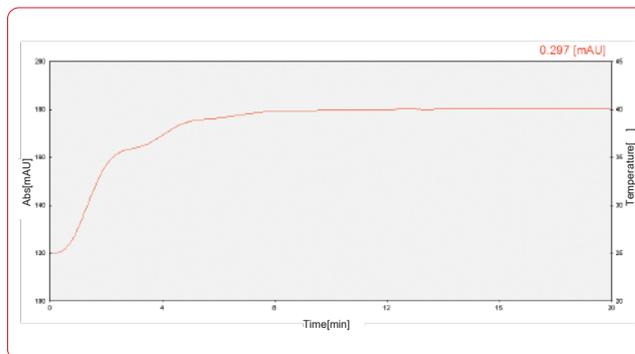
Preheating Function

Via preheating treatment, mobile phase will be reach rated temperature before coming into the column, so avoid the unbalance temperature status in the column, then avoid the influence of temperature floatation also.



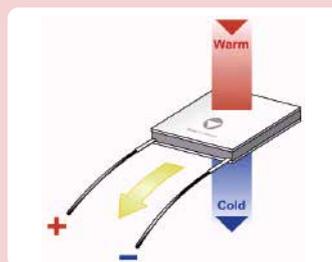
Precision Temperature Control

LC-X34 utilized the semiconductor heating technology, and avoid the over shoot of temperature raising, then ensure the stable temperature raising and precision control.



What is the semiconductor temperature control?

Utilized the Peltier reaction of semiconductor material, once the DC go through two different semiconductor material assembly couple, the couple will absorb and release the heat, so it could realized the cooling or heating target. The feature is, there is no any mobile parts and more reliable also.



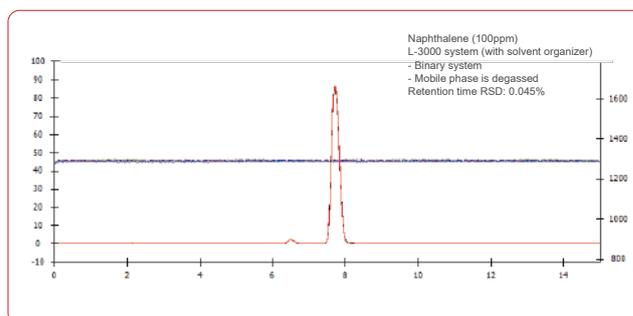
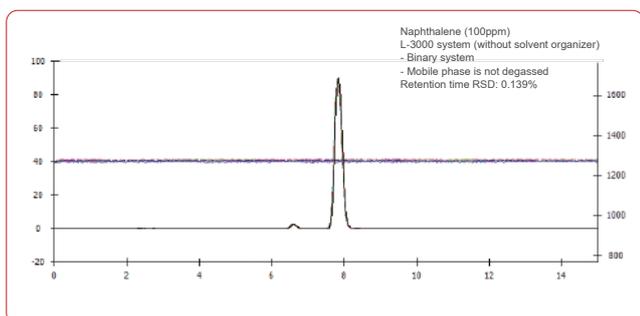
LC-X35 Solvent Organizer



Performance Highlights

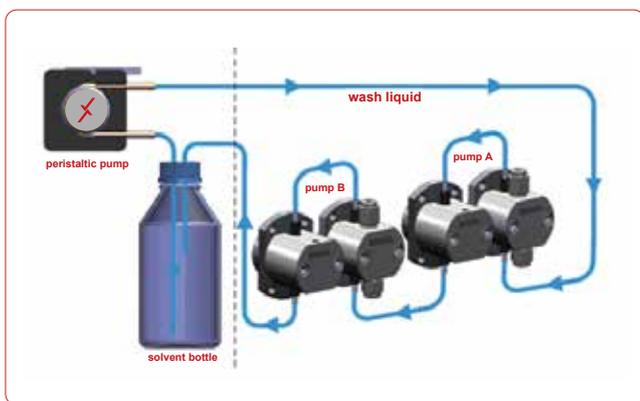
Ultra Experience Operating

LC-X35D HPLC system equipped with LC-X35 serial solvent organizer, which could remove the bubble influence effectively, and reduce the pressure fluctuation & base line noise.



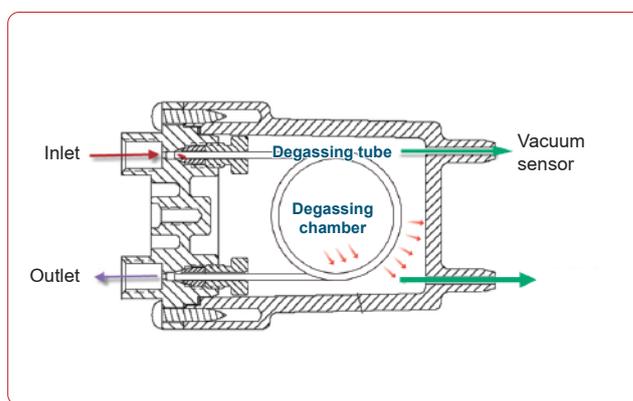
Pole Washing System

The washing system composed with solvent organizer and pump coordination, it could wash the pole and sealing ring salt crystallization and prolong the service life.



High Efficiency Degasser

LC-X35 solvent organizer equipped with 2-Channel degasser which will remove the remaining gas dissolution in the mobile phase, and make the pump operation more stabilized and reduce the base line noise.

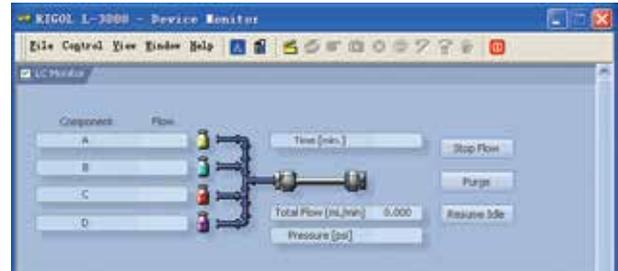


Bubbles Damages

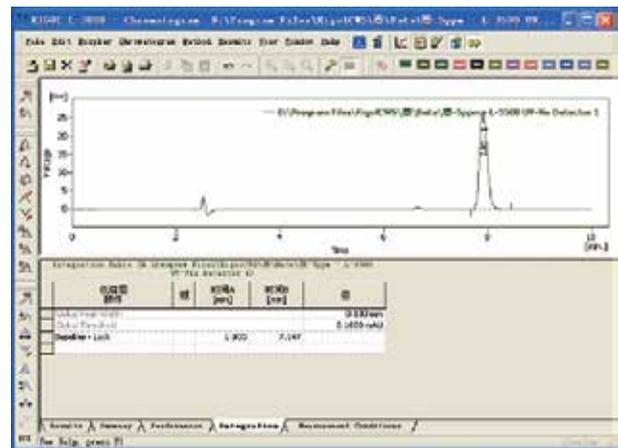
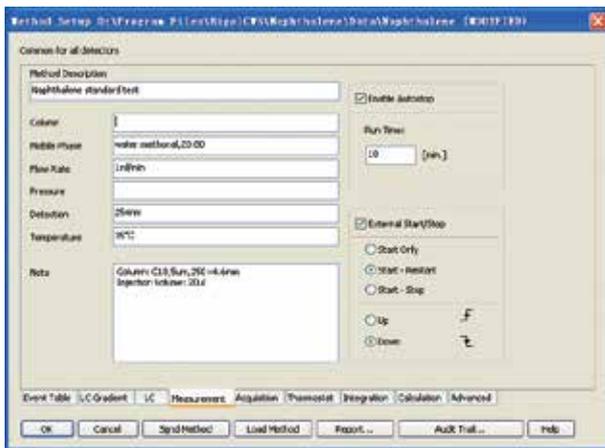


- (1) It will lead to the big base line noise, and influence the base line till it could not be regularly works.
- (2) It might raise the problem with single direction valve, especially will cause big pressure floatation once you choice the pressure floatation control option.
- (3) Gradient mixing will generate the bubbles due to different characters of solvents. None degassing solvent provide the condition of bubbles generation.
- (4) Influence the detector operation, likes fluorescence quenching, reduce the sensitivity of FLD.

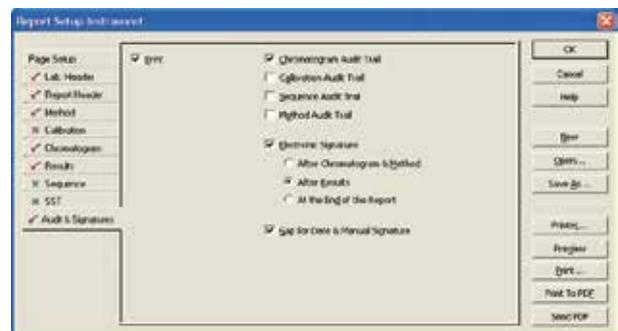
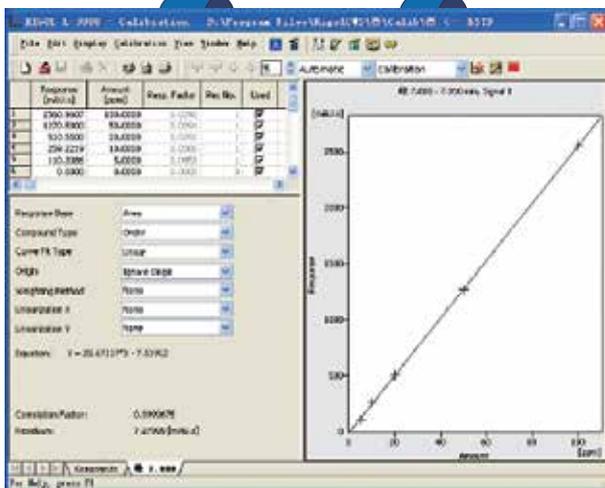
Direct instrument control plus intuitive user interface give user the simplicity of operating the instrument from software.



Simple method editing interface and powerful data processing with more than twenty integral functions.



Various calibration procedures and customizable report editor.



Specifications

Solvent Organizer		LC-X35 I Solvent Organizer	LC-35 D Solvent Organizer
	Online Wash	Standard Configuration	
	Online Degassing	None	2-channel (480µL/channel)

Delivery Pump		LC-X31 I Isocratic pump	LC-X32 B Binary pump	LC-X31Q Quarternary pump	
	Online Degassing	None	None	4-channel (480µL/channel)	
	Flow Rate Range	0.001mL/min – 10.000mL/min (increment 0.001mL/min)			
	Flow Rate Accuracy	±0.5% (@1mL/min, water)			
	Flow Rate Precision	≤0.1% (@1mL/min, water)(JJG) ≤0.07% RSD (@1mL/min, water)(ASTM)			
	Max. Pressure	9,000 psi (@0-2mL/min) 6,000 psi (@2-5mL/min) 3,000 psi (@5-10mL/min)			
	Pressure Pulsation	≤1% (@1mL/min, water, backpressure > 10Mpa)			
	Gradient Accuracy	None		±0.5%	
	Gradient Rreproducibility			≤0.2% SD	≤0.2% SD

Autosampler		LC-X33 autosampler
	Sampling Mode	Full loop, partial loopfill and µl pick-up
	Volume of Sample Loop	standard: 100 µL (optional for 10, 20, 100µL)
	Max. Sampling Volume	Full loop = loop volume Partial loop fill = 1/2 loop volume µl pick-up = (loop volume- 3 × needle volume)/2
	Sample Volume	2*48 1.5mL vials(standard) (Optional: 96-hole panel, 384-hole panel, 10mL bottle)
	Cross Contamination	< 0.02%
	Linearity	0.9999
	Pressure Limit	6000 psi (15,000psi sampling valve is optional)

Column Oven		LC-X34 Column Oven
	Temperature Range	Room Temp +5 C - 70 C
	Temperature Accuracy	± 1.0 C
	Temperature Stability	± 0.1 C
	Column Load	250mm column ×1, 50mm guard column ×1

LC-X32E		Evaporative Light Scattering Detector
	Light Source	LED 470nm
	Evaporation Temperature	RT - 100 C (increment 1 C)
	Flow Rate	0.1mL/min – 2.5mL/min (standard)
	Air Consumption	<3.0L/min
	Air Required	>5L/min nitrogen gas or air, 2 -4.5Bar

UV-VIS Detector		LC-X32 U UV-VIS Detector
	Wavelength	190-800 nm
	Light Source	Deuterium lamp, Tungsten lamp
	Spectral Width	8nm
	Wavelength Accuracy	±1 nm
	Wavelength Precision	0.2 nm
	Noise	±0.5×10 ⁻⁵ AU (JJG) ±0.35×10 ⁻⁵ AU (ASTM)
	Drift	1×10 ⁻⁴ AU/Hr
	Linear Range	>5×10 ⁴ (JJG) >2.5AU (ASTM)
	Max. Sampling Rate	100 Hz
	Flowcell Pressure	1200 PSI
	Flowcell Light Path	10 mm
	Flowcell Volume	12µL
	Detection Limit	5×10 ⁻⁹ g/mL

Diode Array Detector		LC-X32 P Diode Array Detector
	Diode Array	1024 pixels
	Wavelength	190 ~ 640 nm
	Light Source	Deuterium lamp
	Spectral Resolution	0.6 nm/pixel
	Spectral Width	4.8 nm
	Wavelength Accuracy	± 1 nm
	Wavelength Precision	0.1 nm
	Noise	± 1.0×10 ⁻⁵ AU (JJG) ± 0.6×10 ⁻⁵ AU (ASTM)
	Draft	0.5×10 ⁻³ AU/Hr
	Linear Range	>2.0AU (ASTM)
	Max. Sampling Rate	8 channels, 100 Hz; Full spectrum, 100Hz
	Flowcell Pressure	1200 PSI
	Flowcell Light Path	10 mm
	Flowcell Volume	12 µL
Detection Limit	2×10 ⁻⁸ g/mL (naphthalene)	
Wavelength Calibration	Mercury peaks and built-in holmium oxide filter	

Refractive Index Detector		LC-X32 R Refractive Index Detector
	Refractive Index range	1.00 ~ 1.75
	Measuring range	0.25 ~ 512 µ RIU
	Linearity range	≥600 µ RIU
	Response time	0.1, 0.25, 0.5, 1, 1.5, 2, 3, 6 sec
	Auto zero	Full auto zero
	Cell volume	8 µL
	Flow rate (Typical)	0.2 ~3.0mL/min
	(Max.)	10mL/min(solvent: pure water)
	Max. pressure	50kpa
	Temp. control	OFF, 30 ~55°C (1°C step), 77°C Temp. fuse
Noise	≤2.5 nRIU (Pure water, response: 1.5sec)	

Agriculture

Simultaneously determining the content of 4 kinds of sulfa-drugs in fodder by using HPLC-DAD

Sulfa-drugs are a class of chemical medicine for disease prevention and treatment of bacterial infections. If take sulfa-drugs standard exceeding livestock products as food for a long time, it might lead to the damage of hematopoietic system, agranulocytosis and so on problems. So that the application limit of sulfonamides in livestock and poultry raise up and play an important role in food safety field. In this paper, an accurate and sensitive method was established to determine the content of 4 kinds of sulfa-drugs in feed by using HPLC-DAD.

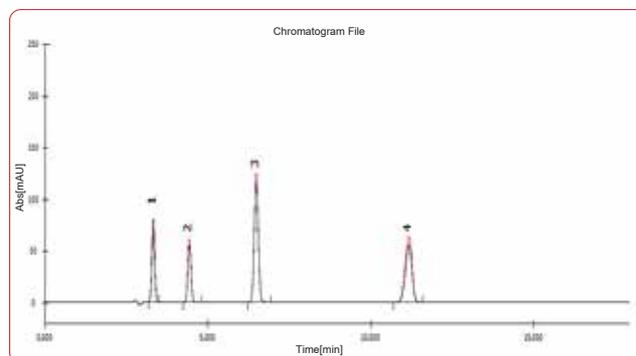
Chromatographic column: C18(250mm*4.6mm*5 μ m)

Mobile phase: Water/Acetonitrile (75/25)

Flow rate: 1.0mL/min

Column temperature: 40 $^{\circ}$ C

Injection volume: 5 μ L



Chemical

Simultaneously determining the content of 6 kinds of UV absorbers in cosmetics

UV absorbers in cosmetics can reduce or absorb the ultraviolet rays, protect skin. Excess ultraviolet radiation will irritate skin and cause skin sensibility. The application of UV absorbers is managed and controlled strictly. In this paper, a new method is developed to determining the content of 6 kinds of UV absorbers in cosmetics.

Chromatographic column: A C18(250mm*4.6mm*5 μ m)

Mobile phase: A: MeOH/Tetramethylene oxide (250/450);

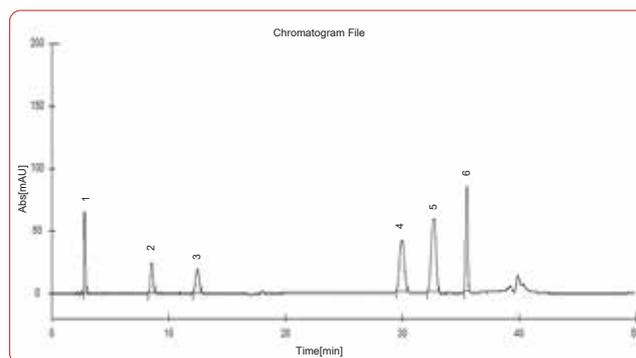
B: Water/Perchloric acid (300/0.1); gradient elution

Flow rate: 1.0mL/min

Column temperature: 30 $^{\circ}$ C

Detection wavelength: 311nm

Injection volume: 10 μ L



Antibiotics

Determining the content of terramycin, doxycycline, tetracycline and auromycin by HPLC

In the livestock farming field, all kinds of antibiotics are used for treatment of livestock disease. Tetracycline antibiotics are widely adopt based on its antibacterial effect and cheap price. Tetracycline antibiotics mainly include terramycin, doxycycline, tetracycline and auromycin.

Chromatographic column: A C18(250mm*4.6mm*5 μ m)

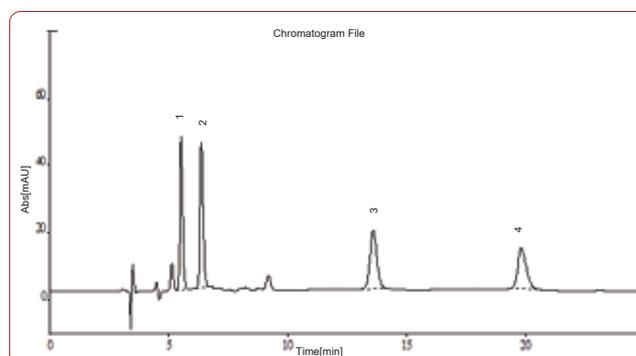
Mobile phase: MeOH/Acetonitrile/0.01mol/L Citric acid solution (12/18/70)

Flow rate: 0.8mL/min

Column temperature: 30 $^{\circ}$ C

Detection wavelength: 360nm

Injection volume: 50 μ L



Application and Solutions

Pharmaceutical Analysis

Determine the content of soybean isoflavones in Soybean Isoflavone Soft Capsule by chromXpert LC-X30 system with core-shell column

Soybean isoflavones are a class of secondary metabolites formed in the growth of soybean. They are extracted from plant, similar structure with female hormone, so soybean isoflavones also called phytoestrogen. Soybean isoflavones can improve skin condition and osteoporosis, relieve the symptoms of menopause syndrome.

Chromatographic column: A C18(50mm*4.6mm*2.6um)

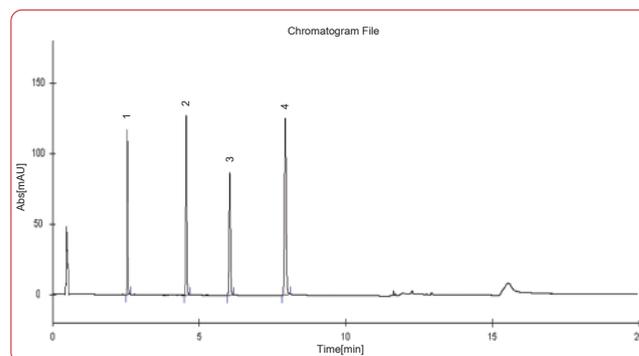
Mobile phase: Phosphoric acid solution (pH=3.0)/Acetonitrile; gradient elution

Flow rate: 1.0mL/min

Column temperature: room temperature

Detection wavelength: 260nm

Injection volume: 5µL



Environment Protection

Content determination of phenols compounds by HPLC

Phenols pollution in environment field means that phenols compounds pollute water. Waste water with phenols is one of the greatest dangerous, and most widely polluted industry waste water. In this paper, 9 phenols compounds were determined by using chromXpert LC-X30 HPLC system. The results show that the method is accurate and sensitive.

Chromatographic column: Compass C18(250mm*4.6mm*5µm)

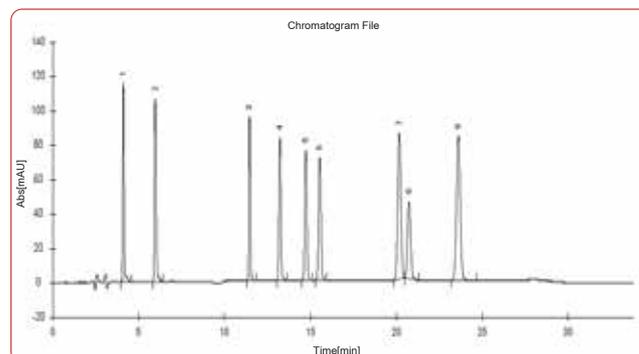
Mobile phase: Water/Acetonitrile; gradient elution

Flow rate: 1.0mL/min

Column temperature: 40°C

Detection wavelength: 223nm

Injection volume: 5µL



Food Safety

Simultaneously determining the content of 8 kinds of organic acids and Vitamins in fruit by using HPLC-DAD

Organic acids and vitamins are very important dry matter in fruits. They usually decide the special taste of fruits and play an important role in food science and nutriology field. In this paper, the new method can simultaneously determine organic acids and vitamins in fruits by using HPLC-DAD.

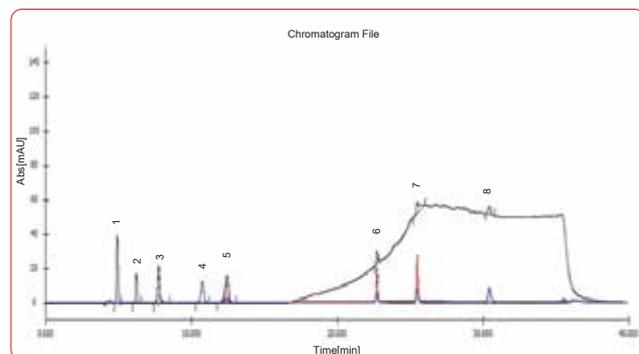
Chromatographic column: Compass C18(2) (250mm*4.6mm*5µm)

Mobile phase: Water/Acetonitrile; gradient elution

Flow rate: 0.6mL/min

Column temperature: 30°C

Injection volume: 10µL



UV-36 UV-VIS SPECTROPHOTOMETER



Light Path

Double-beam and split beam designs

0.03 %T

Ultra-low stray light $\leq 0.03\%$

0.5 nm

0.5nm optical resolution with 4 options of spectral bandwidth, 0.5/1/2/4 nm

Better Usability

Versatile test solutions, with built-in bio-analytical methods

Friendly Design

7" TFT color screen WVGA(800X480), water-proofing keyboard design

Data

Supports storage & printing with USB devices, controllable by UltraUV workstation for extended functions

UV-36 UV-VIS Spectrophotometer could help you to accomplish various analysis by its advanced design and user-friendly interface. With its built-in high resolution color screen and water-proof keyboard, you can easily scan spectrum, monitor kinetic curve, measure unknown sample concentration or even print the report directly via simple operation



UV-36 Series UV-VIS Spectrophotometer

High Cost Performance



Low stray light $\leq 0.03\%T$
 0.5nm resolution
 Various spectral bandwidth
 selection

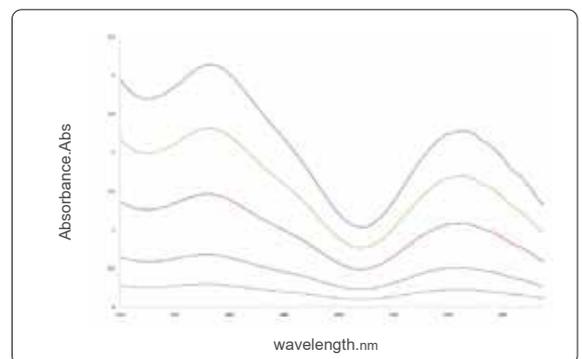
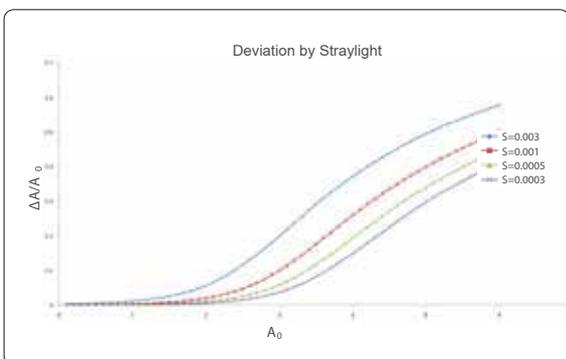


Built-in formulas and methods,
 operable both via panel and
 workstation



TFT color screen & compact design;
 Complete connectivity: LAN,
 USB host & device

- ▶ Ultra-low stray light design for more precise measurement
 Stray light $\leq 0.03\%T$ under each bandwidth



Easy to Use

- ▶ Support Flash disk storage and USB print
Connectable to PC via LAN and USB ports
- ▶ 7" TFT color screen WVGA(800X480), graphical interface
Water-proofing design keyboard
Knob button for simple operation



Specifications

Performance Parameters of Ultra-UV-36 Series

Model	UV-36
Light Path	Double beam
Spectral Bandwidth	0.5/1/2/4
Wavelength Reproducibility	0.1 nm
Wavelength Accuracy	±0.3 nm
Wavelength Range	190-1100 nm
Noise	±0.00004A
Drift	0.0005Abs/hr
Stray Light	≤ 0.03%T
Spectrum Scanning	Standart
Screen	7" TFT color screen WVGA(800X480)
Direct Printing	Available
USB Storage	Available
Built-in Methods	Available
Workstation	Available

Technical Support and Customer Service



Powerful Lab Test Procedures-Development

ChromXpert's experienced Application Engineer team is dedicated to lab solutions and test procedures development, public hot case study, application optimization, etc. in food safety, pharmacy, biology and environmental monitoring fields. The team also provides the customers with test procedures verification service.



Completed Solutions

ChromXpert's technical support team understands customers needs, provides the customers'with application optimized system configurations, regulations complied test solutions, as well as responsive and quality customer support.



Quality Training Services

ChromXpert offers on-site training service, ChromXpert technical support engineers will help the customers better understand the instruments operations and maintenance, provide the customers with the prompt consulting and support on-site and/or remotely.



Comprehensive Customer Service

ChromXpert's customer-service center is committed to answering customers' service requirement effectively and professionally.

CHROMXPERT

CHROMXPERT

Instruments for
Lab Professionals

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