Chromai

Innovation for Better Life

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Chromai®

科诺美

UHPLC

Ultra-High Performance Liquid Chromatography Series

Innovation for Better Life

30%
R&D Technical Staff

10+
Product Series

10+
Application Fields

30+
Independent Intellectual Properties

100+
Global Coverage Areas

Chromai , as a leader in China's high-end scientific instruments and medical diagnostic equipment, is committed to making analytical testing more efficient, precise, and user-friendly. With a focus on independent R&D and continuous innovation, the company possesses advanced technologies and numerous core patents. It specializes in integrating scientific instruments with automation and intelligence, offering products and solutions widely used by global clients across multiple fields. Chromai is a national high-tech enterprise and a member of organizations such as the China Instrument and Control Society, China Association for Instrumental Analysis, and China Medical Device Industry Association. The company strives to elevate China's manufacturing reputation worldwide, becoming a Chinese tech company that promotes global progress in health and safety while improving efficiency, reducing analytical costs, and creating value for customers.

Change the global industry market pattern, let China create a global reputation

Efficient and reliable solutions
Empowering laboratory analytical performance

Every data realiable and trust worthy

Advantages and Value

Scene adaptation

Adaptation through a full-scenario LC matrix — from analytical ultra-high-pressure systems to preparative purification platforms, supplemented with specialized modules to precisely address complex sample detection challenges, meeting demands from scientific research to production.

Improve efficiency

Ultra-high-pressure separation cuts analysis time by 60%. High-sensitivity detection breaks quantitation limits.

Service Value-Added

3Q certification and 24/7 support. Optimizes asset allocation, streamlines upgrades, and ensures a balance between research efficiency and cost control—maximizing ROI.

Diverse Scenarios and Customized Solutions

- **Environmental Monitoring**
  - Pollutant Monitoring
- **Agriculture & Livestock**
  - Pesticides | Veterinary Drugs | Feed
- **Research & Education**
  - University Labs | Research Institutes
- **Food Safety**
  - Nutrients | Harmful Substances | Illegal Additives
- **Biopharma & Pharmaceuticals**
  - Biologics | Chemical Drugs | Synthetic Biology | Traditional Medicine | Excipients
- **Chemical Materials**
  - Cosmetics | Polymers | Fuels
- **Regulatory Testing**
  - FDA | Customs | Agricultural Inspection | Quality Inspection | Commercial Inspection
- **Forensics & Judiciary**
  - Judicial Identification | Forensic Toxicology
- **Public Health**
  - Disease Control

Chromai
- 科诺美 -

Leaps

UHPLC System

Leaps Pro

UHPLC System Pro

Frontier

UHPLC System

Leaps 2D

2D UHPLC System

Leaps Pro Bio

Bio–Inert LC System

Leaps Prep

Preparative LC System

2D System

Bio-Inert

Comprehensive and powerful UHPLC product lineup, from rapid analysis to complex samples, bio–inert to preparative purification.
Full coverage of column particle size selection: 1.7μm for UHPLC, 3~5μm for routine analysis, 7~20μm for preparative purification.

Analytical

Preparative

Multi-Domain

Multi-Module

Reliable and Stable

Cost–Effective

Rapid Analysis with Reliable Performance

10500PSI (720 Bar)
Maximum Pressure

2×54 / 2×96 Well Plates
Sample Tray

Injection synchronization
Improves retention time accuracy

Leaps

Dual ternary pumps
Multifunctional modules

Switch between standard LC and 2D LC
Supports custom solutions

Online enrichment and impurity removal
Minimizes manual sample preparation

Leaps 2D

Ultra-stable pulse control for precise operation

Designed for high stability—maintains accurate performance even with low-ratio mixing; pressure pulsation is controlled within <10 PSI to ensure reliable operation

Fully automated sample processing

Integrates pre-column derivatization, automatic dilution, and mixing—enabling full-process automation

Flexible and adjustable multi-mode configuration

Equipped with a large-capacity column oven that holds up to 4×300mm columns; temperature control range of 4℃ to 85℃; supports 10-/6-port valves for multi-center cut functionalities

Fully intelligent adaptive operation

Supports cross-sequence operations—automatically analyzes multiple projects in sequence without manuel

Top LC Sytem in China

10500 PSI (720 Bar)

Maximum Pressure

4×54 / 4×96 Well Plates

Sample Tray

Hand-Tight Zero Dead Volume Tubing

Minimize Extra-Column Volume

Leaps Pro

22040 PSI (1520 Bar)

Maximum pressure

Total reflection flow cell

Low Dispersion

LC-MS Combinations

SDK System Integration

Frontier

High-efficiency analytical experience

Smart delay volume reduction tech, combined with zero dead volume tubing and semi-micro flow cells to Minimize Extra-Column Volume

Smaller volume and Non-Destructive Sampling

Integrated Loop Autosampler, minimum injection volume to 0.1 μL, supports multi-solvent washing, reduces sample carryover to 0.0025%

Precise temperature control system

Semiconductor temp. control with a range of 4°C – 85°C, built-in high-sensitivity leak sensor, optional preheating module available

Compatible with multiple detector types

Support Various Detectors such as UVD, DAD, FLD, ELSD*, and RID*

Leaps Pro Bio

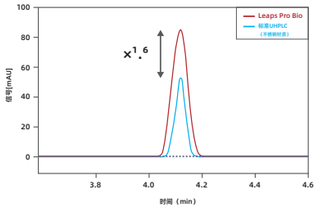
Bio-inert LC System

Designed for efficient analysis of biological samples

- Inert flow path for biological samples
- Biocompatible materials
- Compatible with biological samples and extreme pH conditions
- Reduced metal adsorption

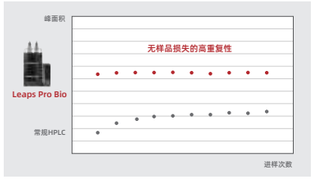
Fully inert and corrosion-resistant flow path: Accurate analysis with hassle-free operation

- Flow path with corrosion-resistant materials, enabling long-term stability in high-salt or extreme pH
- Reducing nonspecific adsorption and sample loss, without complex mobile phases or frequent passivation
- Fully inert configuration including pump, flow path, injection valve, syringe, and flow cell
- Plunger wash peristaltic pump to effectively reduce salt precipitation
- Hand-tight zero-dead-volume fittings prevent diffusion and peak broadening



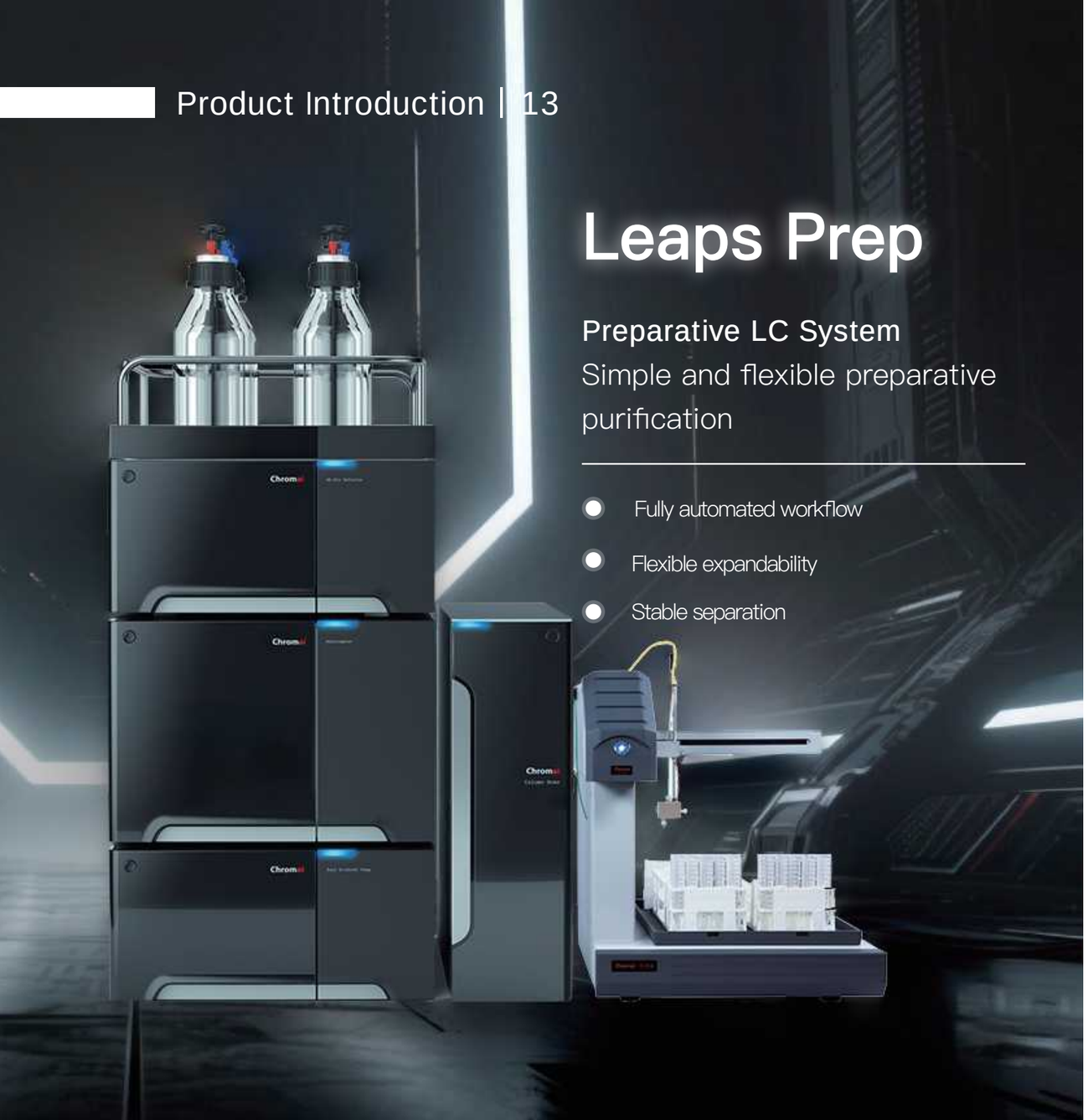
Vairous application scenarios and analytical modes

- Supports RP, IEX, SEC, and HIC modes
- mAb/BsAb purity analysis, mRNA impurity detection, and quality control of CGT



High-precision automated sample handling

- Customized with high-precision robotic arm modules integrated with recognition and path-planning algorithms, enabling automated sample tray replacement and precise slot positioning for full end-to-end unmanned operation



Leaps Prep

Preparative LC System

Simple and flexible preparative purification

- Fully automated workflow
- Flexible expandability
- Stable separation

High-pressure preparative applications

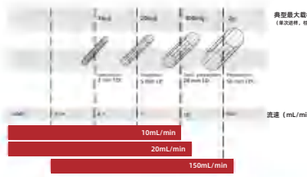
- Flow Rate: 0–150 mL/min
- Pressure: 0–400 Bar
- Supports up to 4 solvents for versatile application scenarios

Enables fully automated fraction collection

- Automated sample injection and fraction collection
- Various collection modes: Time, Threshold, Slope, and Mixed Mode
- Various rack types, including 30 mm, 16 mm, 13 mm Tubes, and 96-well plates

Large-volume injection and column switching

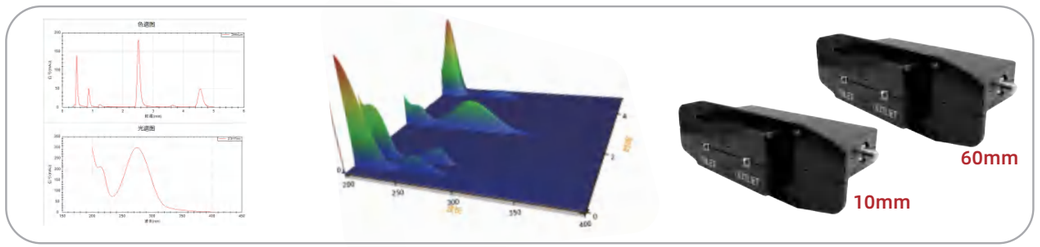
- Multiple injection modes, with a maximum injection volume of 5 mL
- Optional refrigerated sample compartment available
- Loading Ranges from Milligrams to Grams
- Flexible sample tray options: 2/5/7 mL sample vials
- Upgradeable to 2D Preparative LC System



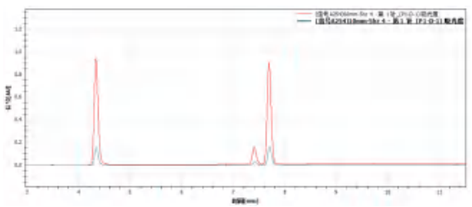
High-pressure preparative pump

Diode Array Detector (DAD)

- 1024 pixels, wavelength range of 190—800nm; reference wavelength eliminates background interference and drift correction function
- Slit widths of 1.2nm and 6nm for high-resolution spectra and more accurate monitoring data
- Simultaneous monitoring of 12-channel wavelengths
- 3D spectral monitoring and peak purity calculation function
- Supports exporting chromatograms at any wavelength within the spectral scanning range



- Ultra-high sensitivity, low dispersion total reflection flow cell,Designed to ultra-high efficiency analysis
- Maximum path length of 60mm for 6× signal sensitivity



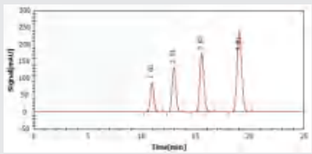
Comparison of 10 mm and 60 mm total reflection flow cells

UV-Vis Detector

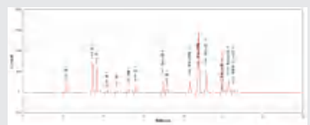
- Wavelength range of 190—900nm
- 100Hz data rate enables accurate recovery of narrow peaks
- 2.5AU linear range
- Wavelength-time programming, wavelength switching, and stop-flow scanning
- Light source is easy to replace, various flow cell optional

FLD

- New optical design
- Delivers excellent signal-to-noise ratio
- Wavelength range: 200—750nm/900nm
- Max.data rate: 100Hz



Aflatoxin standard solution



Polycyclic aromatic hydrocarbons (PAHs) standard solution

Aflatoxin Toxin

Polycyclic Aromatic Hydrocarbons

Vitamins

Amino Acids

- Food Safety: Detecting harmful substances in food
- Chemical Analysis: Organic synthesis and pharmaceutical R&D
- Life Sciences: Glycosylation analysis and other applications
- Environmental Monitoring: Pollutant analysis in environmental samples

Evaporative Light Scattering Detector (ELSD)

- Universal detector, suitable for gradient elution
- High sensitivity, low sensitivity to temperature changes, stable baseline
- Online filtration with adjustable pressure valve design, clean gas source and stable airflow
- Precise temperature control system
- Front-positioned nebulization chamber for easy cleaning
- Optional GPC module

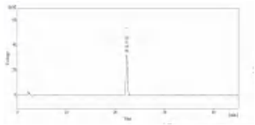


Figure 1: Astragaloside IV standard

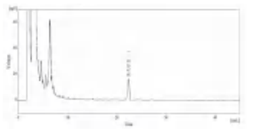
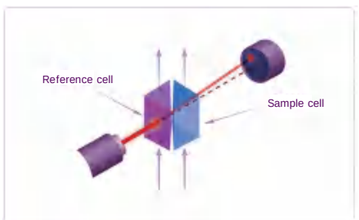


Figure 2: Ejiao Tonic Paste sample

Application Scope	Traditional Chinese Medicine	Chemical Pharmaceuticals	Carbohydrates	Polymeric Surfactants	Lipids
	Glycosides / Alkaloids / Terpenoids / Flavonoids / Steroidal compounds	Aminoglycosides	Monosaccharides / Oligosaccharides / Sugar alcohols	Polysorbate / Polyvinyl alcohol	Phospholipids / Triglycerides / Fatty acids

Refractive Index Detector (RID)

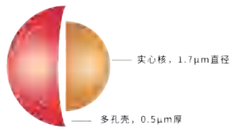


- High sensitivity for sugar analysis; detection limit up to 10^{-8} g/mL
- Temperature control and automatic flush-balance to quickly stabilize the baseline
- Optional GPC module

Lotus Series Columns

HPLC/UHPLC	Bio LC	Prep LC

Reversed-phase mode
Lotus C18/Polar C18
Lotus C8
Lotus Phenyl/PFP



Lotus Core-Shell
(Core-shell particles)

Enables efficient method transfer

Normal-phase and HILIC modes
Lotus NH2/HILIC

LotusBio SEC

LotusBio SAX/SCX

Lotus PREP

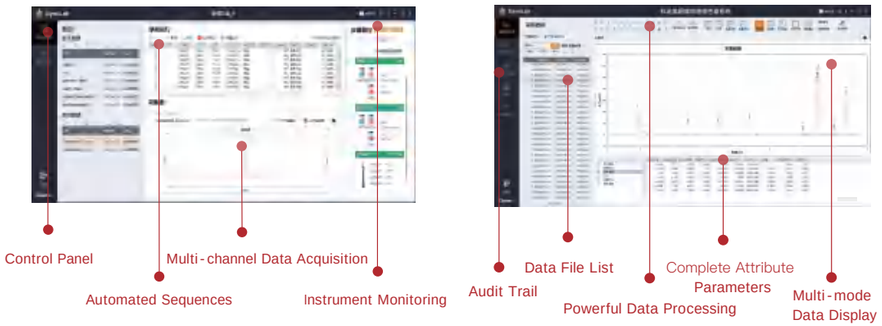
- Packing material from globally reliable suppliers
- Industry-leading GMP standards, Meticulous column packing process
- Special functional group bonding density,Balances for hydrophobic and hydrophilic compounds
- Various application requirements, Particle sizes from 1.7μm to 20μm
- Leader in Bioinert LC Systems in China,Complete solutions for LC consumables
- Complex sample separation,High surface area and high carbon loading

EyouLab Intelligent Data System

Enhances laboratory efficiency with greater accuracy and speed
Effectively reduces operational costs and risks

EyouLab CDS

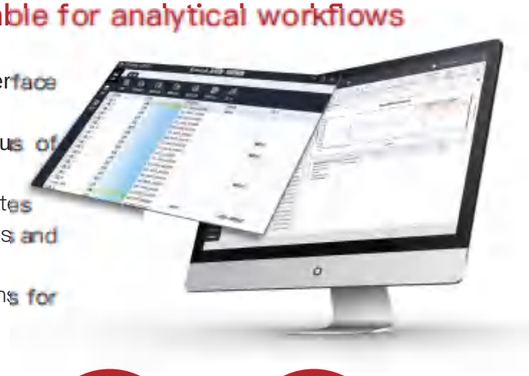
EyouLab fully complies with FDA 21 CFR Part 11, GMP, GLP, and other regulatory requirements. It offers multiple deployment options, including standalone, networked, and medical versions, with multilingual support covering everything from sample preparation to precision medicine.Built on dozens of proprietary technologies, it combines a “smart guided interface + cloud–based data management” to simplify complex experimental operations, ensure data integrity and accuracy, and significantly boost lab capabilities and efficiency—accelerating the transition to intelligent laboratories.



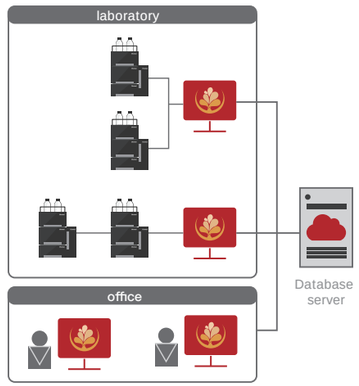
- Unified Data Management and Retrieval
- Full Regulatory Compliance
- Ensures Physical Security of Electronic Data
- Easy Remote Access Control
- Open-access Network Analysis System
- Simple Installation, Startup, and Maintenance
- Each acquisition terminal can control up to 4 systems

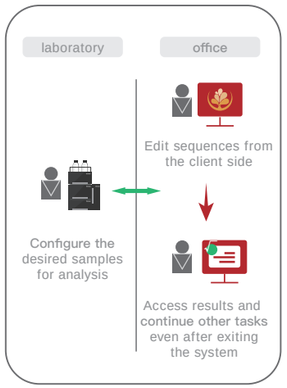
More user–friendly and intelligently adaptable for analytical workflows

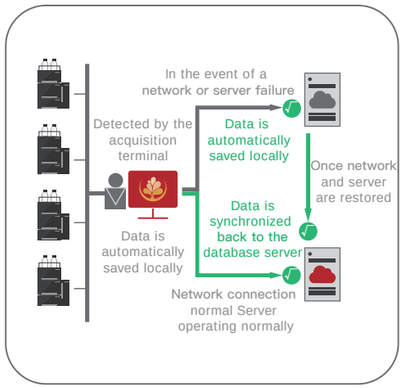
- Integrated normalization window with a minimalist interface simplifies complexity for ease of use
- Graphical monitoring interface provides real-time status of instrument operation
- Easy–to–use report editor with readily accessible templates
- Robust data processing with over 34 integration functions and calculation methods
- Advanced automatic peak width and threshold algorithms for optimal integration



Standalone Operation | Remote Access | Archiving Management | Audit Trail | Risk Management







More Specific and Customized Solutions

Precise adaptation and performance upgrade

Tailored solutions based on sample characteristics

Reduce operation and maintenance costs, meet compliance standards

Amino Acid Analyzer

Pre-column derivatization via auto-sampler and post–column derivatization with ninhydrin; the fully automated amino acid analyzer offers efficient automation for primary and secondary amino acid derivatization in pharmaceutical R&D and food testing, enhancing analysis efficiency and accuracy

Online Pre-treatment

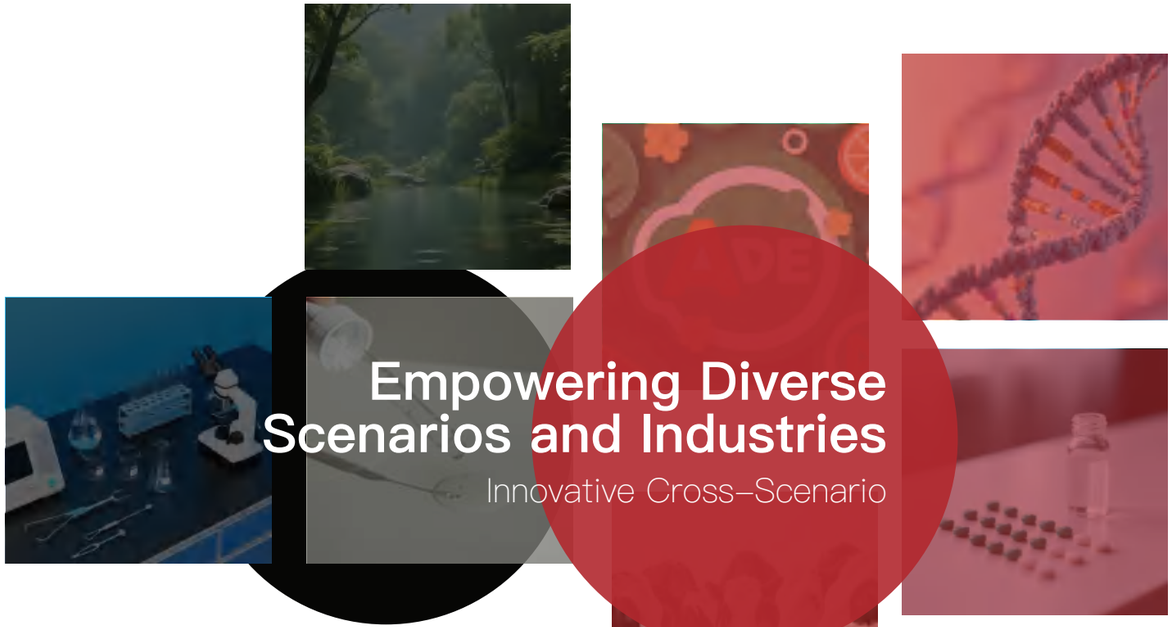
Streamlines sample pre-treatment process, doubling detection efficiency. The dual ternary pump configuration saves space and ensures easy operation. Highly integrated design significantly optimizes workflow while reducing both cost and time

GPC/SEC

Utilizes high-accuracy, high-performance SEC/GPC systems for precise analysis of polymers and macromolecules, meeting the full-range needs from molecular structure research to quality control

2D Preparative Chromatography

Combines powerful separation performance with a simplified operational experience. With dual–mode compatibility, the system easily adapts to various application scenarios—from method development to routine analysis—unlocking broader possibilities in sample analysis



Empowering Diverse Scenarios and Industries

Innovative Cross–Scenario

Scientific Research and Education

Tandem LC

Loop and tandem LC utilize parallel column regeneration technology to save time on ineffective column cleaning and re–equilibration, significantly improving sample throughput

Parallel LC

Parallel LC enables cross–gradient operation of two completely different LC methods simultaneously, increasing productivity without expanding workspace. It allows rapid acquisition of sample data while minimizing the risk of degradation of unstable analytes

Environmental Monitoring

Detection of Polycyclic Aromatic Hydrocarbons in Water

Online SPE column are used, and enriched compounds are transferred to the analytical flow path via switching valves for quantitative analysis

Chemical Materials

Determination of Compound Content in Cosmetics

Simultaneous determination of α–arbutin, β–arbutin, deoxyarbutin, hydroquinone, and phenol in cosmetics, with detection and quantification limits meeting testing requirements.

Food Safety

Fat-Soluble Vitamins in Food

Using 2D-LC with heart-cutting, the tedious steps of VD normal–phase purification are avoided. After sample preparation, a single injection allows simultaneous detection of vitamins A/ D/E

Agriculture

Analysis of Aflatoxins in Feed

Photochemical derivatization is low-cost and avoids the use of highly concentrated additives that can damage instruments in chemical derivatization. Compared with pre-column derivatization, it is safer and less labor–intensive

Pharmaceuticals & Biopharmaceuticals

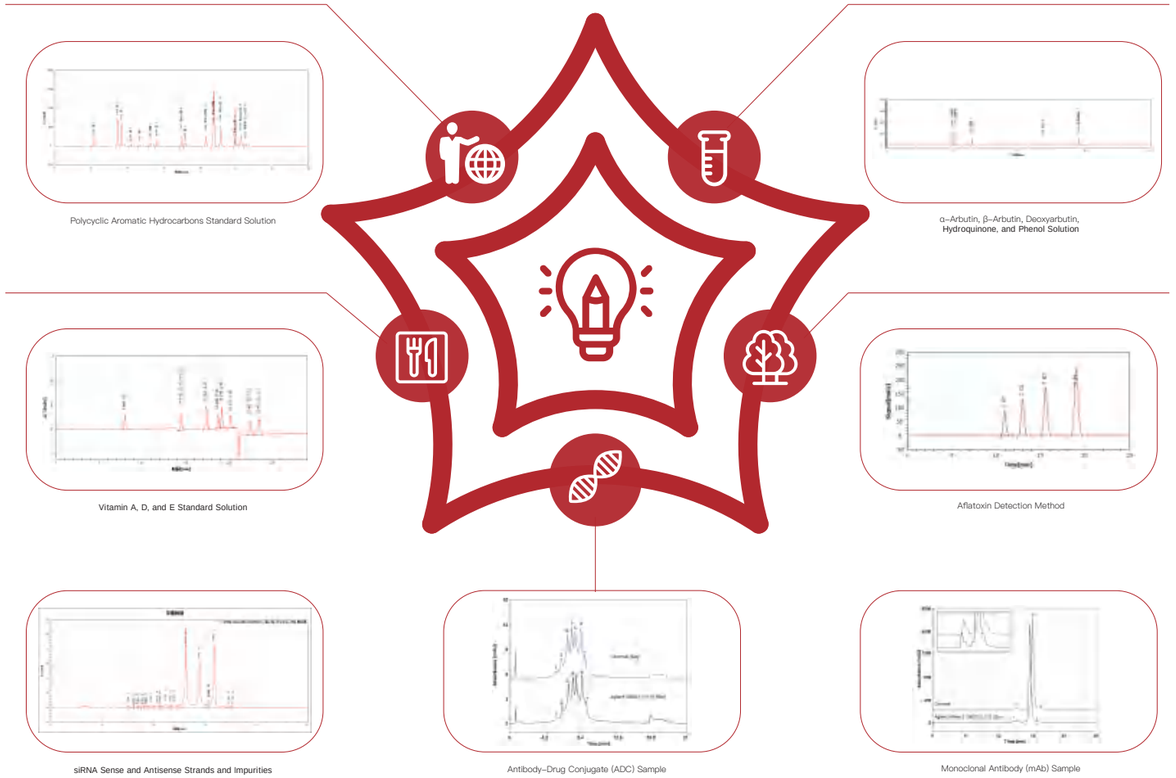
Purity and Impurities Analysis of Nucleic Acid Drugs

Anion exchange chromatography is used to quickly separate sense and antisense strands and impurities in mRNA drugs. The results are reliable and meet the requirements of nucleic acid drugs for HPLC column systems

Analysis of Small-Molecule Toxins and ADCs

IEC in mAb and ADC workflows ensures high sensitivity in analysis and detection, supporting precise quality control of ADC drugs

Chromai is deeply engaged in the validation, optimization, and innovative development of analytical methodologies across various fields, continuously delivering cutting–edge industry application solutions and customized services to help analytical laboratories remain competitive and achieve flexible expansion.Our business now comprehensively covers diverse fields including academic research, pharmaceuticals, biopharmaceuticals, agriculture and animal husbandry, chemical materials, and environmental monitoring. With full–scenario technical service capabilities, we provide precise support for the analytical needs of various industries.



Polycyclic Aromatic Hydrocarbons Standard Solution

α–Arbutin, β–Arbutin, Deoxyarbutin, Hydroquinone, and Phenol Solution

Vitamin A, D, and E Standard Solution

Aflatoxin Detection Method

siRNA Sense and Antisense Strands and Impurities

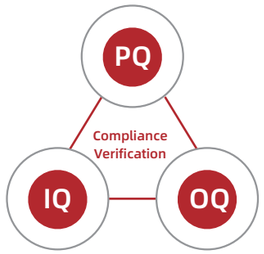
Antibody–Drug Conjugate (ADC) Sample

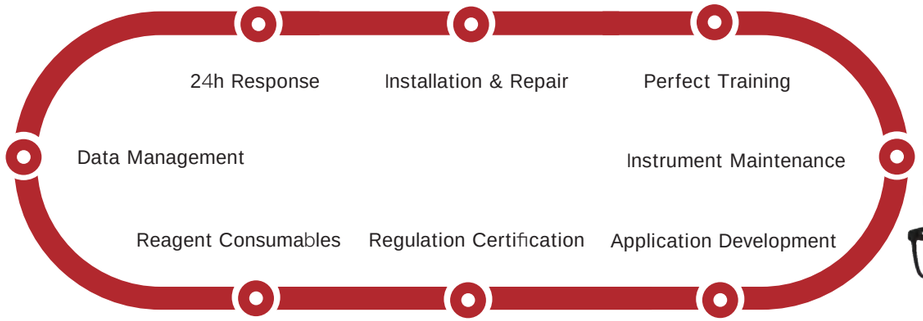
Monoclonal Antibody (mAb) Sample

Full Lifecycle Service Assurance: Supporting You Every Step of the Way

From Deployment to Advancement, Professional Operation & Maintenance Ensures Worry-Free Support

To ensure continuity in experimental workflows and data reliability, we build a full lifecycle service system for every delivered instrument.From the moment your order is confirmed, a dedicated engineer will be assigned to provide services including installation, commissioning, and standardized training.During the instrument's lifecycle, our engineers will provide regular preventive maintenance and fast, responsive support,Ensuring smooth operation of your instrument and delivering efficient and worry-free assurance.





Make Analysis and Detection More Efficient, Accurate and Easy To Use

Innovation for Better Life