

Flash Chromatography System-Basic version

Simpler operation process

Automatic gradient optimization algorithm, no chromatographic separation experience required.



Less space taken up

The occupied area is smaller than a sheet of A4 paper and can easily fit into a fume hood or glove box.



Less maintenance requirements

No check valve design, the use of LED light source, long-term use of maintenance-free



Yocell Biotechnology (Qingdao) Co., LTD

Tel.: +86 532-80920900
Website: www.yocellbio.com

Flexible and convenient fully automated flash chromatography machine



Dual pump binary gradient provides continuous and stable eluent output

Built-in collection valve and support for external collectors to expand collection locations

Built-in single-wavelength / dual-wavelength LED detector, providing a variety of wavelength options below 800nm

Expansion positions reserved to support conductivity and pH detectors for large molecule purification or valve configurations for a variety of specialized processes.

Technical feature

- The device covers an area of 28 x 16 cm, which is only 70% of the area of an A4 paper, and weighs about 16 kg.
- Modular design facilitates configuration changes, equipment upgrades, maintenance and repair.
- Different collection and injection methods are available on request.
- Use of non-check valve infusion pump and LED light source detector, no daily maintenance.
- Avoid eluent siphoning, stable and reliable delivery of methylene chloride and highly viscous liquids.
- The extremely simple software interface provides a smooth experience that conforms to the column workflow.
- Provides a mobile application for converting flash methods from TLC images, and supports Bluetooth connectivity for method synchronization, remote spectral detection and elution process intervention.

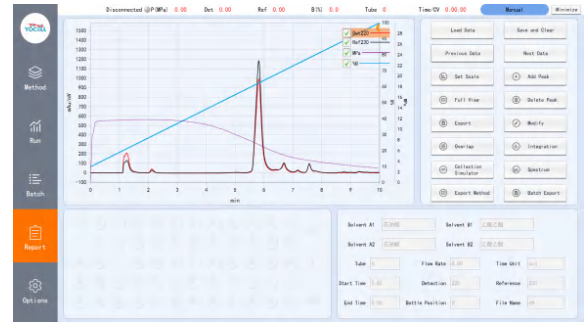
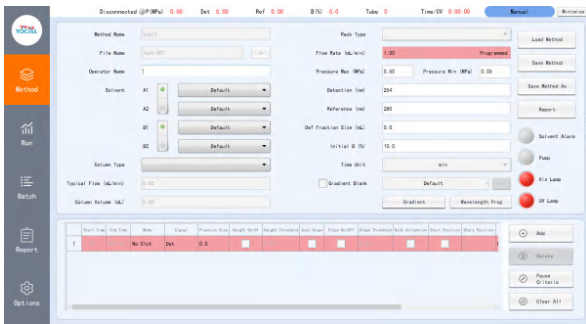
Technical parameters

Model	YC-MPLC-basic150
Gradient	Binary gradient, support four solvent binary gradient expansion
Flow rate	0.1-150mL/min
Maximum operating pressure	1.0MPa
Flow rate accuracy	0.3%
Gradient accuracy	2%
Applicable Flash column	Up to 330g
Detector	Single-wavelength/dual-wavelength LED detector (Optional in the range of 254-800nm); PDAD detector, 200-400/800nm
Automatic collection valve	1/3/7/15 Channel Optional
Collector	Carousel collector: 50mL×40bit, 15mL×60bit, 6mL×80bit XY collector:1L×20bit, 250mL×42bit, 40/15mL×288bit
Weight	16kg
Dimension(W*H*D)	28×32×16cm

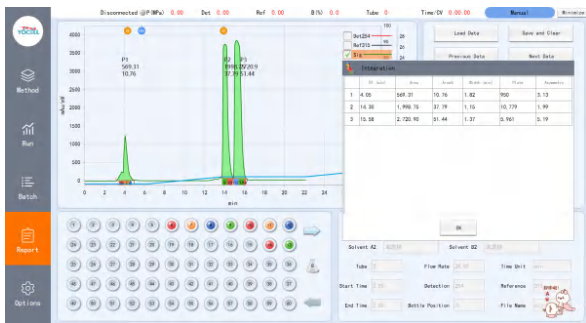


Tangram workstation-Uitimate swiftness and smoothness

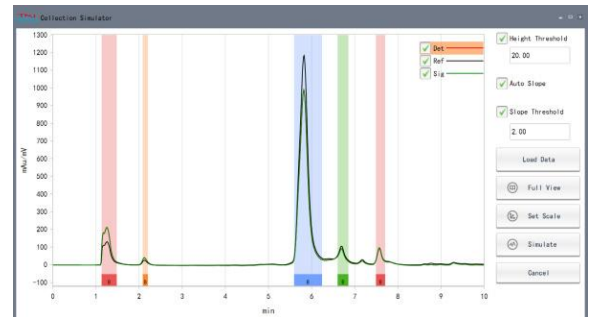
Flat designed User interface-Two type of user interface switchable in one touch. Simplified UI, concise and practical for typical workflows. Professional UI, feature-rich for advanced application.



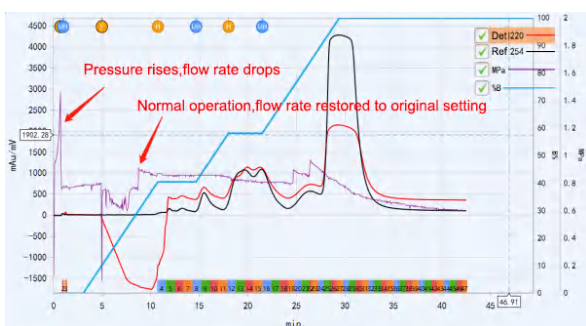
Convenient integration and normalization functions



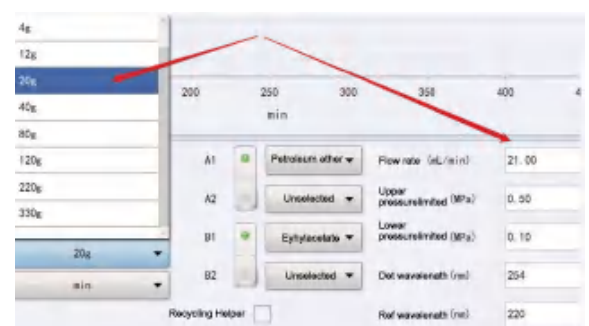
Collection simulation with achieved chromatogram helps method development for auto-collection



Dynamic flow function automatically adjusts flow to reduce short-term pressure peak caused by insoluble samples



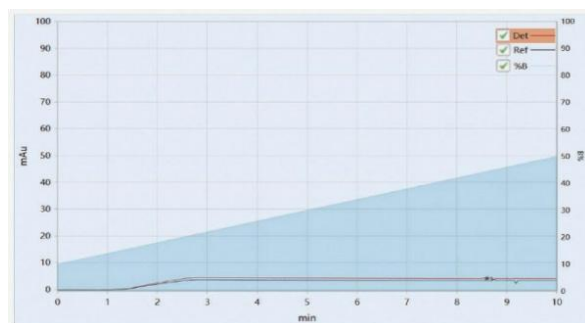
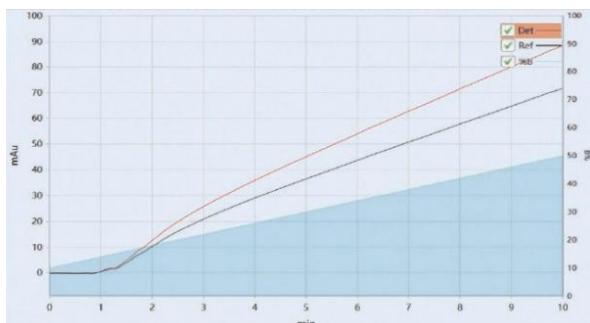
Automatic flow rate setting based on column size



For solvent systems with UV absorption, baseline subtraction function ensures a stable baseline for reliable collection.

There is a significant baseline drift in the gradient run without background subtraction.

After subtraction, the baseline significantly improves for a better data acquisition.



APP for TLC to flash method translation

Yocell TLC mobile application, specifically designed for transforming TLC results into flash methods.

It enable a swift generation of optimized Flash chromatography methods from TLC plate images.

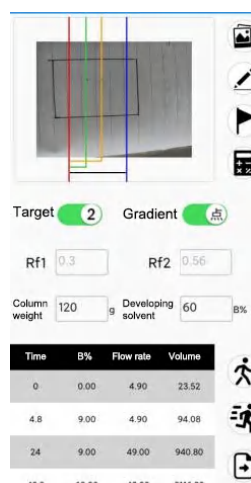
The methods can be seamlessly synchronized with the chromatography system via Bluetooth, granting users the convenience of the digital age.



Step 1: Capture an image of TLC Plate



Step 2: Generate RF Values



Step 3: Automatic Gradient Method Generation



Step 4: Transferring Method to System via Bluetooth