Fast Preparative Liquid Chromatography (Flash)

Solutions for Organic Purification

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Yocell Flash Preparation Platform

The characteristic design is more convenient to use.

Drawer-style module structure

Effortless replacement, without any need of specialized personnel or delicated tools.

In-line peristaltic pump for column purge

Detector module incorporates a delicated peristaltic pump, which facilitates the removal of air bubbles from the pump head and enables quick evacuation of residual liquid in Flash columns after seperation.

Smart and reliable column rack

Exquisite and innovative column rack that accommodates of up to three tandem Flash columns in various sizes. Effortlessly connect multiple 330g large-scale chromatography columns.

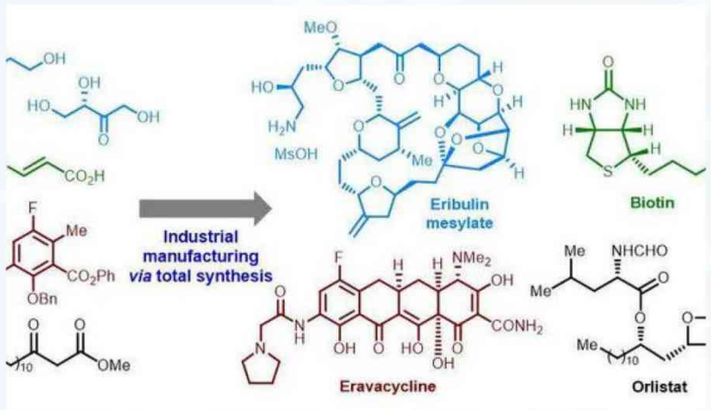
Meticulously designed bulk collection valve

An dedicated in-line rotary valve in detector achieves a unique bulk collection function, which offers a standalone port for large-scale eluents. The valve also blocks flow path to block sypon when system is idle.

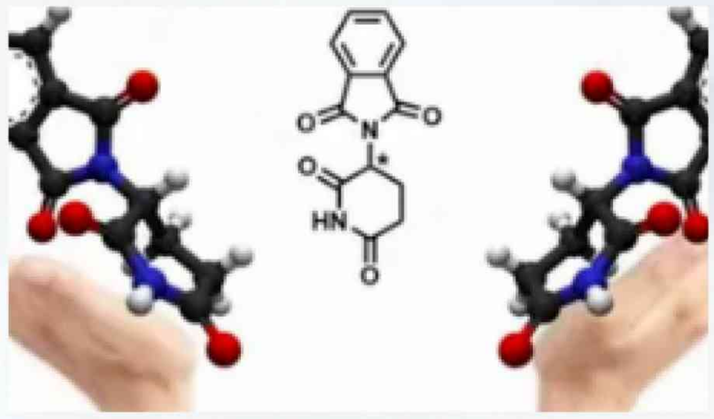
Application

Separation and purification of natural products

Separation and purification of synthesized drugs



Preparation of intermediates or by-products of synthetic reactions



Separation and purification of chiral drugs

Technical Features

- Easy to move, transport and install with integrated design and small covered area.
- Compatible with forward and reverse chromatography.
- A locking valve prevents siphoning by automatically blocking the flow path when the instrument is stopped.
- Large volume collection valves facilitate the collection of large amounts of fluid fractions.

Technical Parameters

Model	YCIPC-MP-SSP200	YCIPC-MP-SDP200	YCIPC-MP-DDP200
System Type	Medium pressure preparation	Medium pressure preparation	Medium pressure preparation
Pump Configuration	Single-piston×2	Single-piston×1 Dual-piston×1	Dual-piston×2
Flow Rate	1-200mL/min	1-200mL/min	1-200mL/min
Flow Rate Accuracy	±2.00%	±1.00%	±1.00%
Flow Rate Stability (RSD)	≤0.50%	≤0.30%	≤0.30%
Pressure Limit	1.5MPa (217Psi)	1.5MPa (217Psi)	1.5MPa (217Psi)
Gradient Accuracy	±2.00%	±1.00%	±1.00%
Gradient Precision	±0.3%	±0.15%	±0.15%
Applicable FLash Column	4g - 330g	4g - 330g	4g - 330g
Gradients	Two-solvent binary gradient/Four-solvent binary gradient		

Detector	190-650nm dual-channel variable wavelength UV detector 190-800nm dual-channel variable wavelength UV/Vis detector 200-400nm DAD detector 200-800nm DAD detector
Collection Modes	Large capacity collection valve + automatic collector (20 ml * 140 positions/50ml * 60 positions/250 ml * 16 positions)
Dimensions	42cm*55cm*52cm

Optional Configurations

Solvent Selector Valve

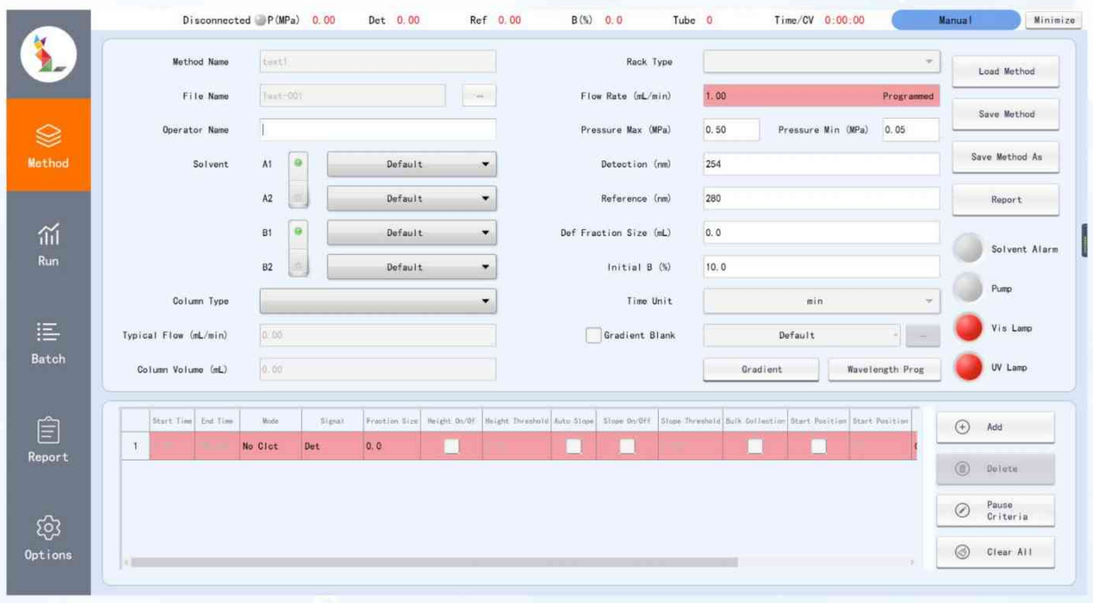
The solvent selector valve upgrades a two-solvent binary gradient to a four-solvent binary gradient system with an exclusive binary mixed waste recovery function, which reduces solvent consumption by using approximately half the volume of mixed waste instead of pure solvent, and is suitable for both isocratic and gradient elution.

Purge module

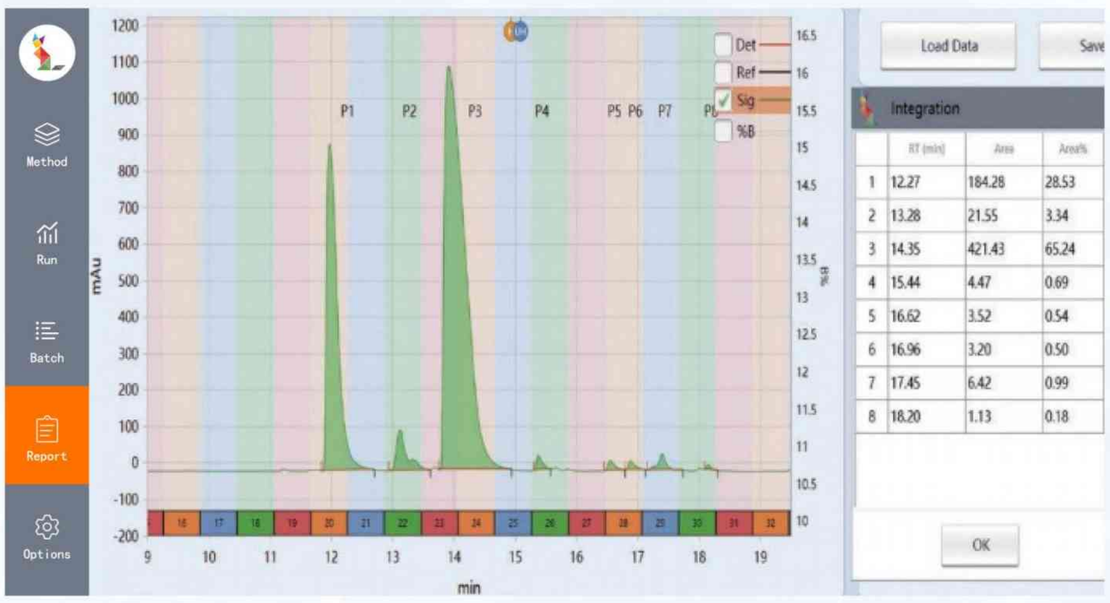
The column can be quickly drained by built-in air pump or high pressure gas.

Tangram workstation-Uitimate swiftness and smoothness

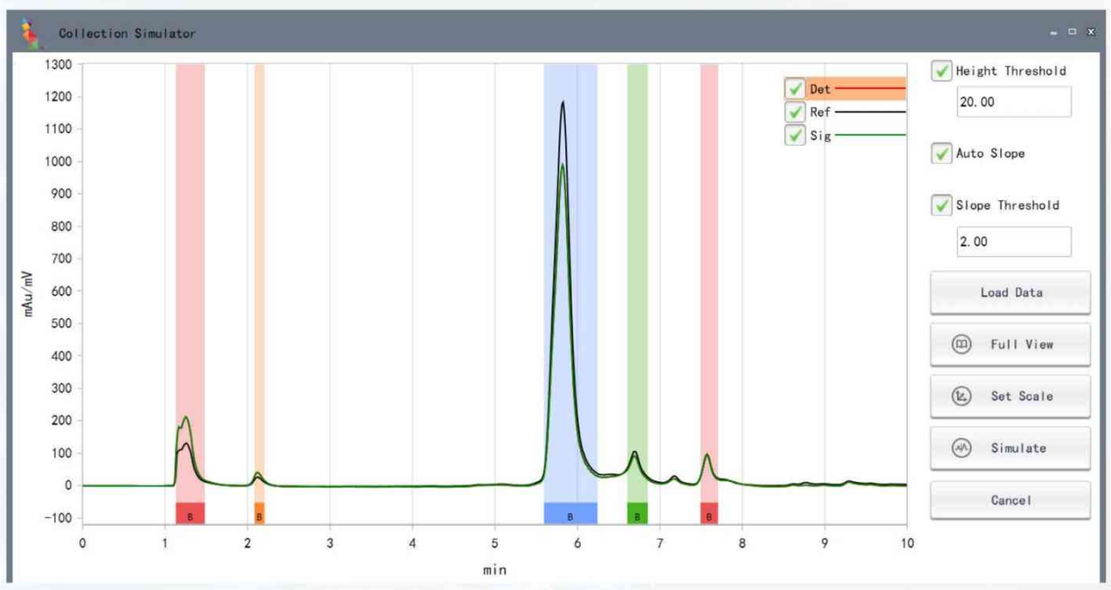
Flat designed User interface-Two type of user interface switchable in one touch. Simplified UI, concise and practical for typical workflows. Professional UI, feature-rich for advanced application.



Convenient integration and normalization functions

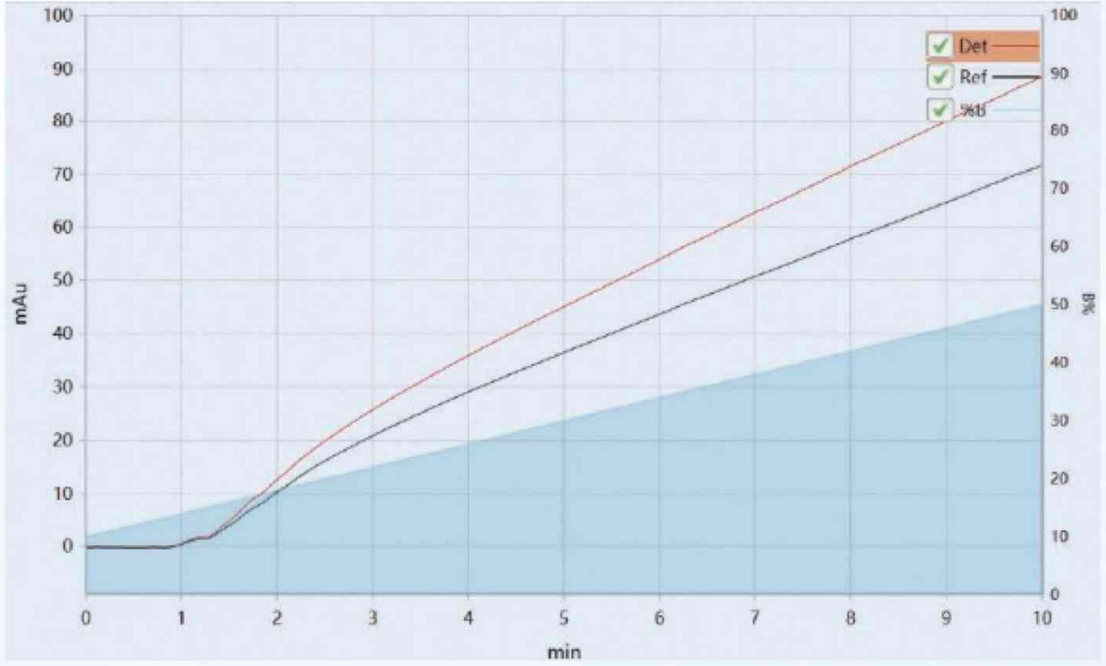


Collection simulation with achieved chromatogram helps method development for auto-collection



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.