

UHPLC

Elute⁺ SL UHPLC System

Compact. Powerful. Precise.

Innovation with Integrity

Precision Meets Performance: The Elute⁺ SL UHPLC System

Experience the next level of liquid chromatography with the Elute⁺ SL UHPLC System – engineered for uncompromising performance and reliability.

At its core is a cutting-edge binary gradient pump featuring linear drive technology with dual pairs of serially coupled pump heads, delivering ultra-precise solvent flow for high-resolution UHPLC separations.

Paired with a benchmark split-loop autosampler, the Elute⁺ SL UHPLC ensures exceptional injection accuracy and reproducibility, along with the ability to inject down to the last few microliters of precious sample in the most demanding analytical workflows.

Designed with efficiency in mind, the system's horizontal column oven supports

multi-column configurations while maintaining the smallest LC stack footprint in the industry.

With cutting-edge components, intuitive software, and robust reliability, the Elute⁺ SL UHPLC seamlessly integrates into your workflow — delivering consistent, high-performance results across a wide range of applications. Whether running routine analyses or pushing the boundaries of research, this system ensures you stay competitive.

Column Oven SL

- Up to three 20 cm columns
- Optional column switching
- Active and passive pre-heater options

Pump HPG 1300

- 1300 bar high-pressure binary gradient
- Built-in degasser and solvent selection valve
- Fully automated self-priming and purging
- 35 μ L mixer volume for lowest gradient delay

Solvent Organizer SL

- Up to eight 1 L bottles for 4 pump solvents, seal wash and 3 autosampler wash bottles

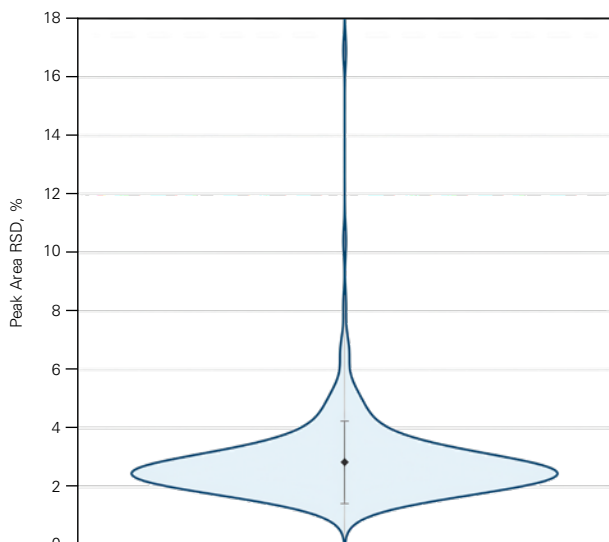
Autosampler SL

- Split-loop injection
- Fast needle wash with up to 3 solvents for ultra-low carry over (<0.001%) and short cycle times
- Mix and dilute programming
- Sample heating and cooling



The most compact LC stack
in the industry

High Precision Across the Full Injection Range

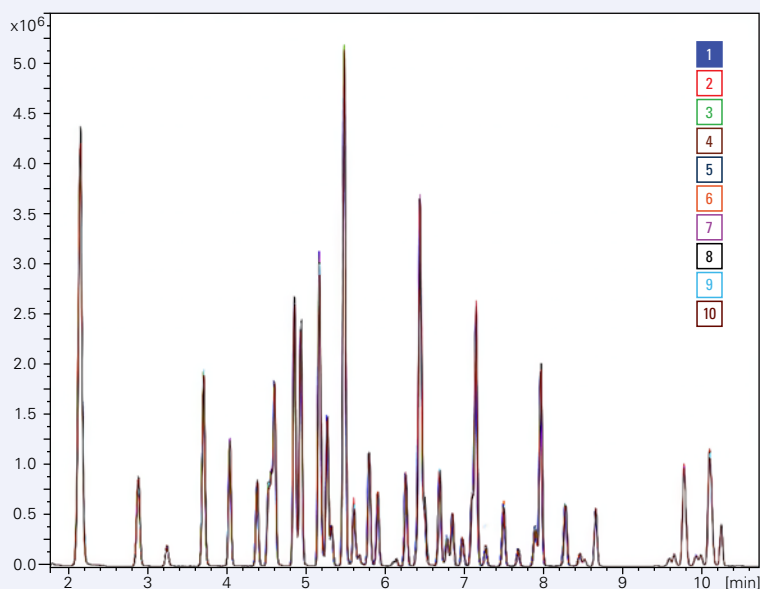


The split loop injection principle delivers highly reproducible injections, especially for low sample injection volumes. Combined with zero sample loss and optimized flow path design, the Elute⁺ SL ensures excellent peak area consistency – ideal for trace-level quantitation and sample-limited workflows in life science research.

Peak area reproducibility distribution for 250 pesticides spiked at 5 ppb into blank blueberry QuEChERS extract and analyzed using the TargetScreener method on an impact II VIP QTOF (10 × 2 μL injections), yielding retention time SD < 0.1 min for all detected compounds and only 10 out of 250 pesticides showing peak area RSD > 5%.

Optimized for PFAS Workflows, From Injection to Detection

Whether screening, quantifying, or confirming PFAS under stringent regulatory methods, the Elute⁺ SL is engineered to deliver consistent analytical performance, ultra-low carryover and minimal background. With the optional PFAS Kit, designed to eliminate PFAS related contamination pathways and validated with demanding methods like EPA 1633, the Elute⁺ SL offers reproducible chromatographic performance essential for reliable PFAS reporting.



Overlay of 10 EPA method 1633 calibration verification runs using a 2 μL injection, illustrating excellent reproducibility for PFAS workflows on the the Elute⁺ SL UHPLC.

Smart, Practical, and Built for Real Workflows

The Elute⁺ SL includes a suite of convenience features that simplify daily operation and reduce total cost of ownership:

- **True automatic self priming and purging** for fast startup and solvent changes
- **Hand-tight MarvelXACT fittings** for reliable, tool free connections
- **Integrated solvent consumption calculators** to monitor usage and minimize waste
- **Built-in calibration and maintenance wizards** for guided, error-free procedures
- **Full front accessibility** to pump heads, autosampler components, and the column oven for streamlined maintenance

In conclusion, these enhancements help laboratories operate more efficiently, minimize downtime, and maintain consistent performance over the instrument's lifetime.



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