

SIELC



ALLTESTA™
MINI-AUTOSAMPLER

Introduction

The Alltesta™ Mini-Autosampler, developed by SIELC Technologies, is a cost-effective solution for automated liquid sample handling in various environments, including HPLC. Its compact design and customizable configurations make it ideal for space-limited areas and mobile instrumentation settings. Key features include small size, flexible configuration, and sample mixing capabilities.

Software options:



The autosampler is controlled by serial commands set. An open comprehensive protocol is provided for customers who want to develop their own control software.



Adapt the Alltesta™ Mini-Autosampler to your specific requirements. The design is flexible in two ways – a variety of hardware options, including valve configurations, tray designs, syringe volumes, needle length, vial type and volume; the software provides for the developer a full operational control of every module of the autosampler. Full software integration support is provided for qualified customers.



Unique Key Features



Built-In Shaking Feature:

Ensure sample homogeneity with sample mixing before injection; or do sample extraction directly within the vial; or efficiently quench the sample with a quench reagent precisely delivered by the pump to the vial.



Direct Control:

Achieve seamless integration with your existing systems through serial commands, with a comprehensive command library provided, allowing you to easily manage and automate liquid sample handling to enhance your laboratory operations.



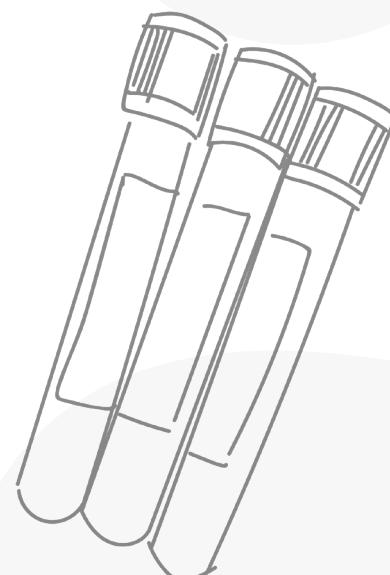
Compact Design:

Save valuable bench space without compromising performance. Can be used in compact mobile applications without adding too much weight.



OEM Customization:

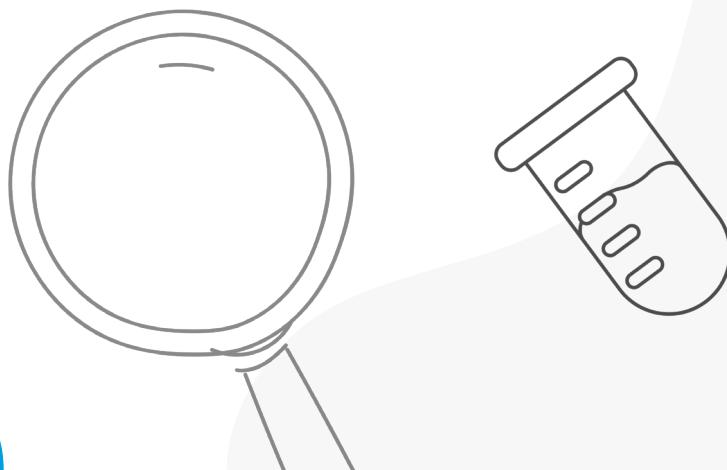
Adapt the Alltesta™ Mini-Autosampler to your specific system with options for custom shapes, colors, and vial sizes.



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Versatile Capabilities applicable to different applications. Some examples include:

- **Fraction collection:** With a simple software modification, the Alltesta™ Mini-Autosampler can function as a fraction collector, enabling fractions to be individually collected in designated vials.
- **Reactor probe sampling:** A simple software modification can quickly convert this small autosampler into a reactor probe sampler.
- **Consecutive feeding different samples to a detector:** many situations such spectrometers as NMR and MS need to be loaded periodically with a series of samples with minimum distance from the sample to a detector. The Alltesta autosampler due to its small size can be placed close to the measuring cell which minimises the sample spreading and measurements delay.
- **Sequential Fluorescence In Situ Hybridization (seqFISH+):** This autosampler application allows users to automate RNA fluorescent marker delivery to a Sequential Fluorescence in situ Hybridization (seqFISH+) system with access to multiple buffers to maintain accurate fluorescence and piping conditions.
- **Loading of fluidic devices:** This autosampler application allows users to automate sample storage and delivery to a micro fluidic device (chip). An accurate sample volume that can be adjusted by the user can be delivered to a line connected to the chip.
- **Reagent addition and sampling dilution:** Integrated reagent and sampling dilution and mixing capabilities allows to prepare samples for the next step in the analytical workflow.



Technical Specifications

	Alltesta™ Mini-Autosampler Standard configuration	Alltesta™ Mini-Autosampler Customizable configuration
Dimensions (WHL)	160 x 145 x 195 mm / 6.3 x 5.71 x 7.68 in	depends on configuration
Weight	3 kg / 6.6 lb	depends on configuration
Power	24 V	24 V
Plate	48 vials	<ul style="list-style-type: none"> • 48 vials • 96-well plate • 384-well plate
Pressure	Up to 5000 psi (345 bar)	depends on configuration
Syringe Capacity	4000 µL low-pressure stainless	<ul style="list-style-type: none"> • 120 µL high-pressure • 4000 µL low-pressure stainless • 4000 µL low-pressure ceramic
Valve options	6x2	<ul style="list-style-type: none"> • 6x2 • 7x6 • 10x9 • 7x6* • 6x2*
Needle	Short (36 mm)	<ul style="list-style-type: none"> • Short (36 mm) • Long (46 mm) • Capillary metal ceramic • Short (36mm) Vented
Miscellaneous	Wash Station	<ul style="list-style-type: none"> • None • Wash Station • Vial Sensor
Volume Accuracy	0.1 µL	depends on configuration
Materials	in contact with liquid SS316, PTFE, PEEK	in contact with liquid SS316, PTFE, PEEK
Communication	The primary method of communication with the device is via a UART interface using an FTDI driver, as the device incorporates an FTDI chip.	The primary method of communication with the device is via a UART interface using an FTDI driver, as the device incorporates an FTDI chip.

*other rotor

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Applications areas:

The Alltesta™ Mini-Autosampler is a highly versatile instrument that can be used in different analytical areas. Some of the most common areas include:



Environmental Monitoring:
Perfect for sampling of environmental probes, enabling reliable and accurate monitoring of water, air, and soil quality.



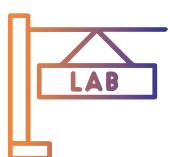
Food and Beverage Analysis:
Efficiently processes samples for food safety, quality testing, and flavor profile analysis.



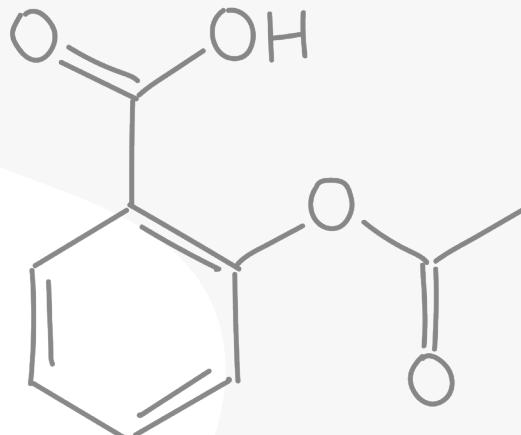
Pharmaceutical Testing: Provides precise sample handling for pharmaceutical analysis, improving accuracy and throughput in drug formulation, dissolution, and quality control testing.



Biotech and Research:
Supports research labs by automating sample preparation and handling, reducing human error, and increasing the speed of experimental workflows.



Clinical and Diagnostic Laboratories: Ensures accurate and automated sample handling for diagnostic assays, improving lab productivity and sample throughput.



Call to Action

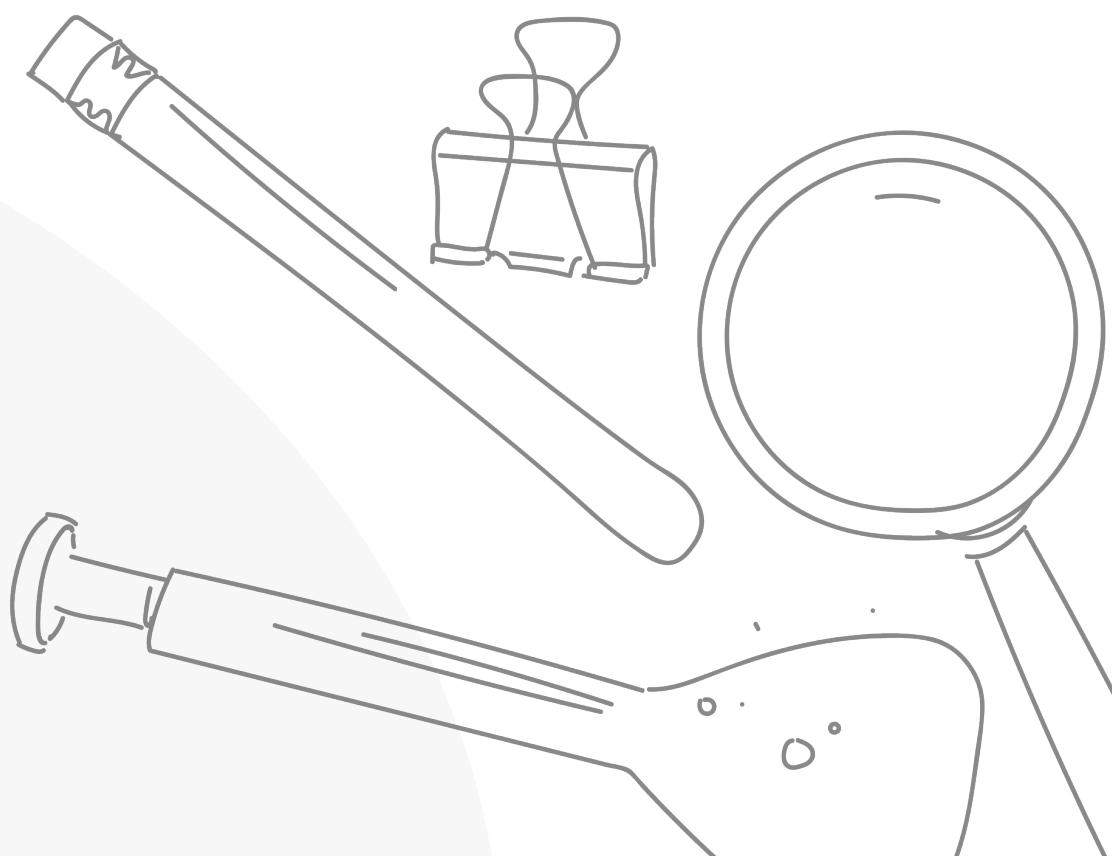
Unlock the potential of Alltesta Analyzers for your lab today:

- Contact us to place an order or ask questions.
- Request a free method development consultation.
- Schedule a demonstration to see our analyzers in action.
- Visit our website or scan the QR code below for more details.

Conclusion

With its customizable features, robust design, and versatile capabilities, the Alltesta™ Mini-Autosampler delivers exceptional value and performance for reliable automation solutions.

Learn more on our website or contact us for consultations and demonstrations.



Contact Us

For Product Information

Email: sales@sielc.com

For Accounts Payable:

Email: finance@sielc.com

Call: 847 229-2629

Fax: 847 655-6079

SIELC Technologies:

804 Seton Ct.

Wheeling, IL USA 60090

