

**SiELC**



**ALLTESTA<sup>TM</sup>**  
**MINI-AUTOSAMPLER**

# 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:**

Insure 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.



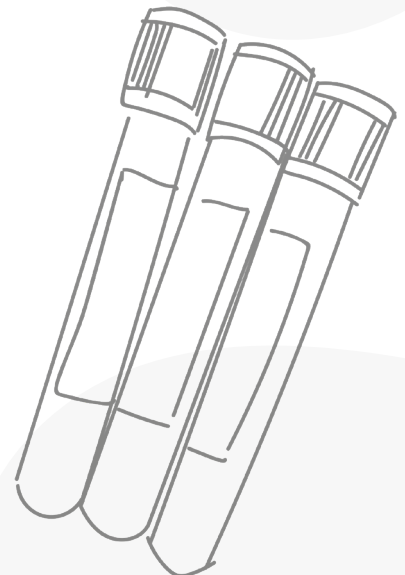
### **Compact Design:**

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



### **OEM Customization:**

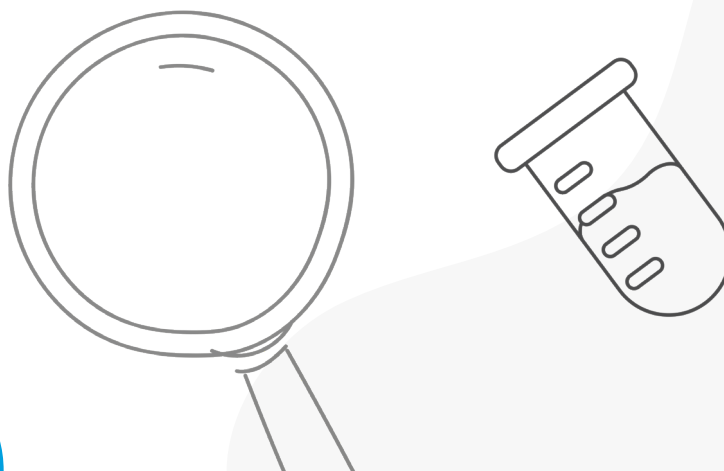
Adapt the Alltesta™ Mini-Autosampler to your specific system with options for custom shapes, colors, and vial sizes.



# ALLTESTA™ MINI-AUTOSAMPLER

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
<b>Dimensions (WHL)</b>	160 x 145 x 195 mm / 6.3 x 5.71 x 7.68 in	depends on configuration
<b>Weight</b>	3 kg / 6.6 lb	depends on configuration
<b>Power</b>	24 V	24 V
<b>Plate</b>	48 vials	<ul style="list-style-type: none"> <li>• 48 vials</li> <li>• 96-well plate</li> <li>• 384-well plate</li> </ul>
<b>Pressure</b>	Up to 5000 psi (345 bar)	depends on configuration
<b>Syringe Capacity</b>	4000 µL low-pressure stainless	<ul style="list-style-type: none"> <li>• 120 µL high-pressure</li> <li>• 4000 µL low-pressure stainless</li> <li>• 4000 µL low-pressure ceramic</li> </ul>
<b>Valve options</b>	6x2	<ul style="list-style-type: none"> <li>• 6×2</li> <li>• 7×6</li> <li>• 10×9</li> <li>• 7×6*</li> <li>• 6×2*</li> </ul>
<b>Needle</b>	Short (36 mm)	<ul style="list-style-type: none"> <li>• Short (36 mm)</li> <li>• Long (46 mm)</li> <li>• Capillary metal ceramic</li> <li>• Short (36mm) Vented</li> </ul>
<b>Miscellaneous</b>	Wash Station	<ul style="list-style-type: none"> <li>• None</li> <li>• Wash Station</li> <li>• Vial Sensor</li> </ul>
<b>Volume Accuracy</b>	0.1 µL	depends on configuration
<b>Materials</b>	in contact with liquid SS316, PTFE, PEEK	in contact with liquid SS316, PTFE, PEEK
<b>Communication</b>	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



# ALLTESTA™ MINI-AUTOSAMPLER

## 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.



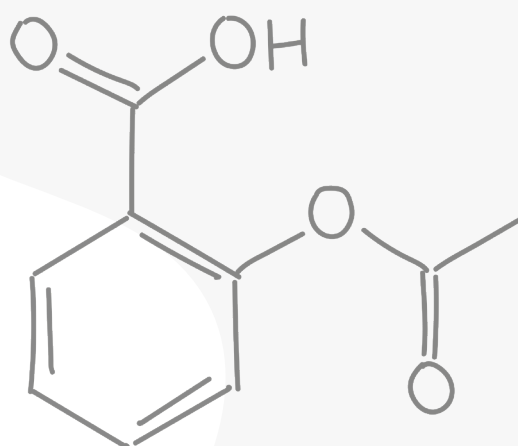
**Pharmaceutical Testing:** Provides precise sample handling for pharmaceutical analysis, improving accuracy and throughput in drug formulation, dissolution, and quality control testing.



**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

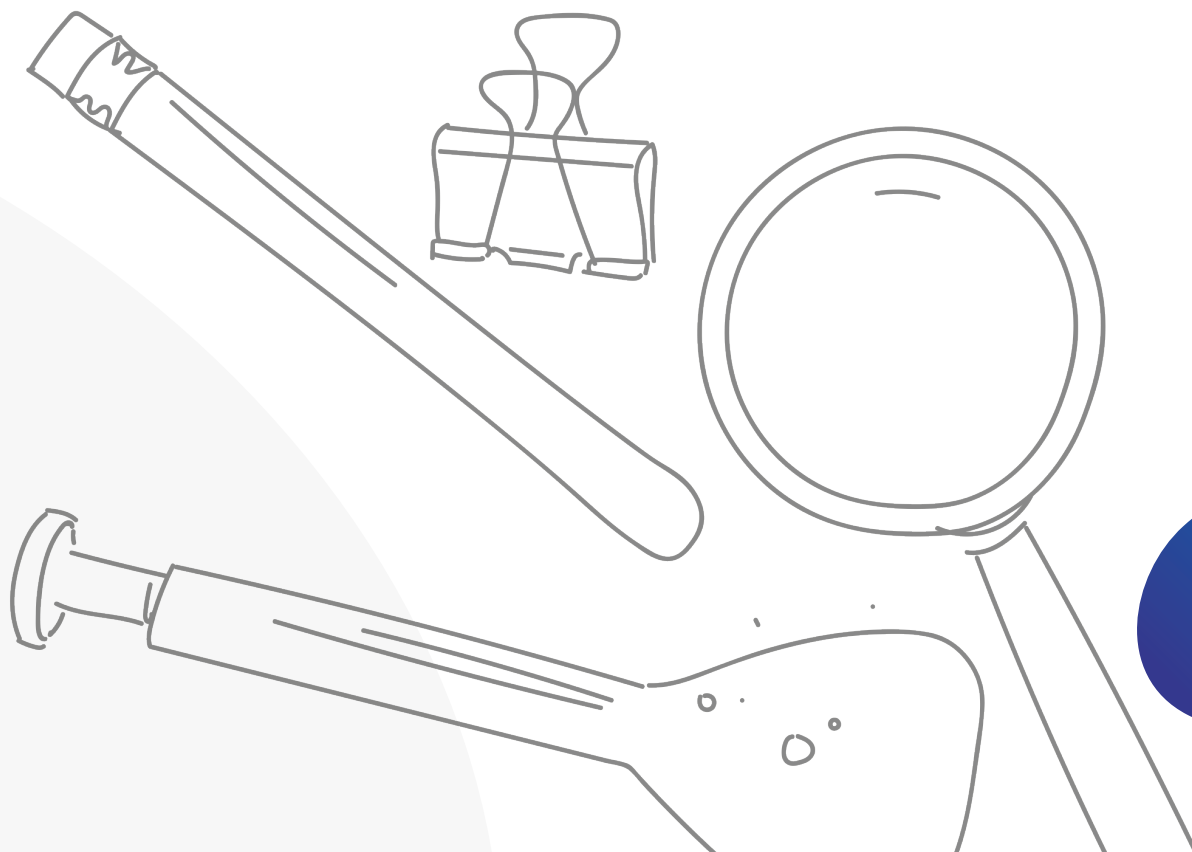
Unlock the potential of Alltesta Analyzers for your lab today:

- 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](mailto:sales@sielc.com)

For Accounts Payable:

Email: [finance@sielc.com](mailto:finance@sielc.com)

Call: 847 229-2629

Fax: 847 655-6079

SIELC Technologies:

804 Seton Ct.

Wheeling, IL USA 60090

