

# SiELC



ALLTESTA™  
AUTOMATED  
ANALYZER

Liquid Chromatography  
Made Simple

# Alltesta Gradient & Isocratic Automated Analyzers

## Introduction

The Alltesta™ Automated Analyzer, developed by SIELC Technologies, provides a sophisticated solution for high-performance liquid chromatography (HPLC). Its compact size allows for installation even in space-constrained environments, and its high-performance capabilities make it invaluable in labs that demand rapid and accurate results. The Alltesta™ Automated Analyzer utilizes HPLC.cloud for anywhere data management and cloud-based analytics, enhancing workflow efficiency, accessibility, and data safety. This integration simplifies remote access, real-time monitoring, and data sharing, making it an even more powerful tool for laboratory operations.

## Key Features:

**Compact Design:**

Space-saving, ideal to free space in a lab



**Ease of Use:** User-friendly interface simplifies complex HPLC processes, requiring minimal training

**Rapid Turnaround:**

Results in under 5 minutes, improving workflow efficiency

**Flexible Operation:**

Handles various liquid and soluble samples

**Web-Based HPLC Software:**

Innovative HPLC.Cloud software, offers secure data collection, real-time view and data manipulation, data sharing, remote access, automatic software update, and cloud data storage enhancing efficiency and minimizing manual intervention

**Comprehensive Columns Line:**

Over 30 column stationary phases for all types of molecules providing optimal separation in addition we offer free custom method development for challenging analyses

## Key Features of HPLC.cloud:

**Cloud Platform:**

Access data from anywhere in the world

**Method Management:**

Remotely develop, store, apply and share analysis methods

**Collaboration:**

Ability to share data and methods with colleagues

**Data Processing:**

Includes powerful tools for interpreting and visualizing results

**Secure:**

Secure storage of methods and results.

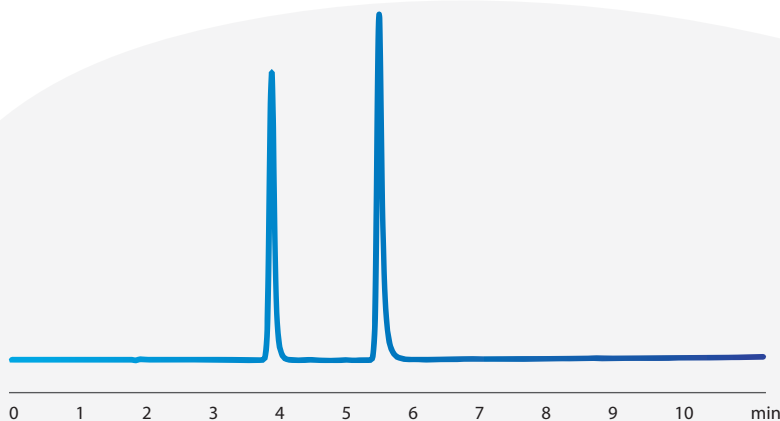
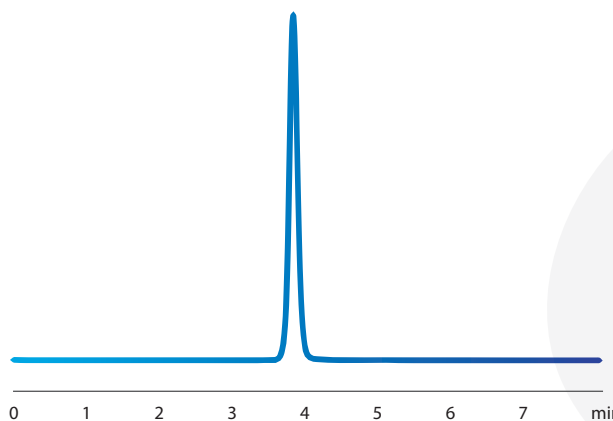
## HPLC.cloud Software

The HPLC.Cloud is a software platform that streamlines high-performance liquid chromatography (HPLC) workflows. By connecting instruments directly to a secure cloud server, the software provides a centralized and flexible solution for managing HPLC operations.

# Alltesta Gradient & Isocratic Automated Analyzers

## Features from Sielc Technologies:

We offer free method development for your specific compounds to fully tailor the instrument to your needs.



### **Alltesta™ Gradient Automated Analyzer:**

Designed for complex multi-component mixtures, providing flexibility and precision in analysis.



### **Alltesta™ Isocratic Automated Analyzer:**

Ideal for routine analyses with constant mobile phase composition, offering simplicity and reliability.



## Alltesta Gradient & Isocratic Automated Analyzers

The Alltesta™ Automated Analyzer includes:



Alltesta™ Power Tower –  
communication and power  
distribution module



Alltesta™ Mini-Autosampler with 48  
vials capacity



Alltesta™ UV-Vis Detector



Alltesta™ Ultra High Pressure Mini  
Syringe Pumps.  
One unit for Alltesta™ Isocratic Automated  
Analyzer  
Two units for Alltesta™ Gradient Automated  
Analyzer

# Alltesta Gradient & Isocratic Automated Analyzers

## Technical Specifications

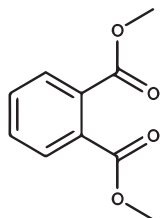
|                                  | Alltesta™ Isocratic Automated Analyzer                                     | Alltesta™ Gradient Automated Analyzer                                      |
|----------------------------------|--|--|
| Autosampler type                 | Random access  | Random access  |
| Sample capacity                  | Automatic, 48/96 Vials   | Automatic, 48/96 Vials   |
| Injection type                   | High pressure  | High pressure  |
| Injection Range                  | 1-75 µL  | 1-75 µL  |
| Injection volume accuracy        | ±1 µL  | ±1 µL  |
| Pump operation                   | Isocratic  | Isocratic, Gradient  |
| Pump type                        | Syringe  | Syringe, Gradient  |
| Flow Rate Range                  | 0.001 to 8.0 mL/min  | 0.001 to 8.0 mL/min  |
| Flow rate accuracy               | 1% of full-scale   | 1% of full-scale   |
| Pressure limit                   | up to 3000 psi (206 bar)   | up to 3000 psi (206 bar)   |
| Pressure precision measurement   | ±1 psi (0.07 bar)  | ±1 psi (0.07 bar)  |
| Detector noise Level             | < 0.05 mAU   | < 0.05 mAU   |
| Detection sample rate            | 20Hz   | 20Hz   |
| Detector wavelengths, standard   | 275, 470, 520, 630 nm  | 275, 470, 520, 630 nm  |
| Detector wavelengths, custom     | Any 4 starting from 235 nm   | Any 4 starting from 235 nm   |
| Supported columns                | 3.2 and 2.1 mm ID  | 3.2 and 2.1 mm ID  |
| Column Length                    | Any  | Any  |
| Connectivity                     | Wi-Fi, Ethernet land line, Mobile cell network                             | Wi-Fi, Ethernet land line, Mobile cell network                             |
| Power Supply                     | 100-240V, 50-60Hz  | 100-240V, 50-60Hz  |
| Liquid connection type           | 10-32 UNF compression type   | 10-32 UNF compression type   |
| Materials in contact with liquid | SS316, PTFE, PEEK, UHMW PE, SiO <sub>2</sub> , EPDM, Viton, Silicon, Glass | SS316, PTFE, PEEK, UHMW PE, SiO <sub>2</sub> , EPDM, Viton, Silicon, Glass |
| Operating Temperature            | 0 to 40° C, non-condensing   | 0 to 40° C, non-condensing   |

# Alltesta Gradient & Isocratic Automated Analyzers

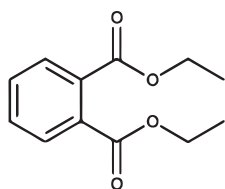
## Demonstrating Practical Benefits

Legend for method: Gradient HPLC Separation  
of Phthalates on Alltesta™ Gradient Automated Analyzer

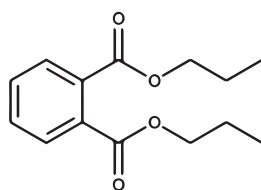
1. Dimethylphthalate (DMP)



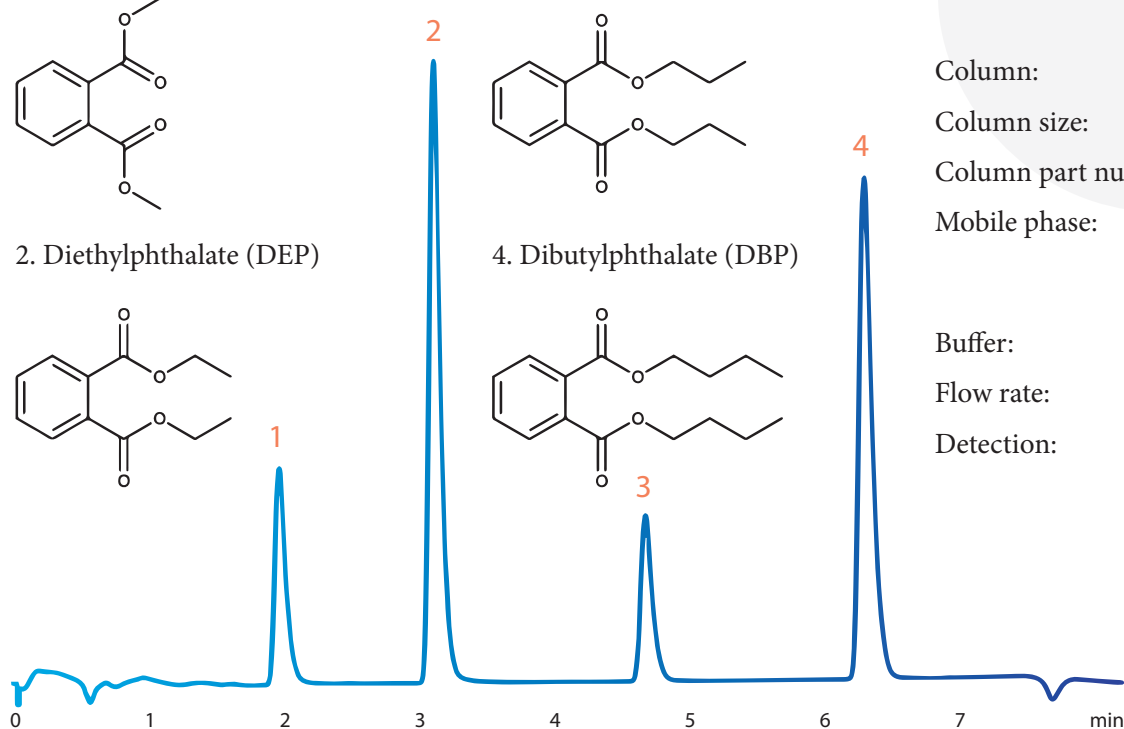
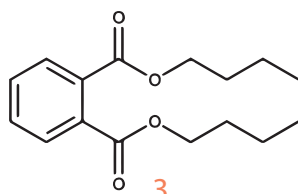
2. Diethylphthalate (DEP)



3. Dipropylphthalate (DPP)



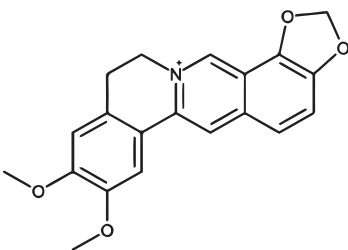
4. Dibutylphthalate (DBP)



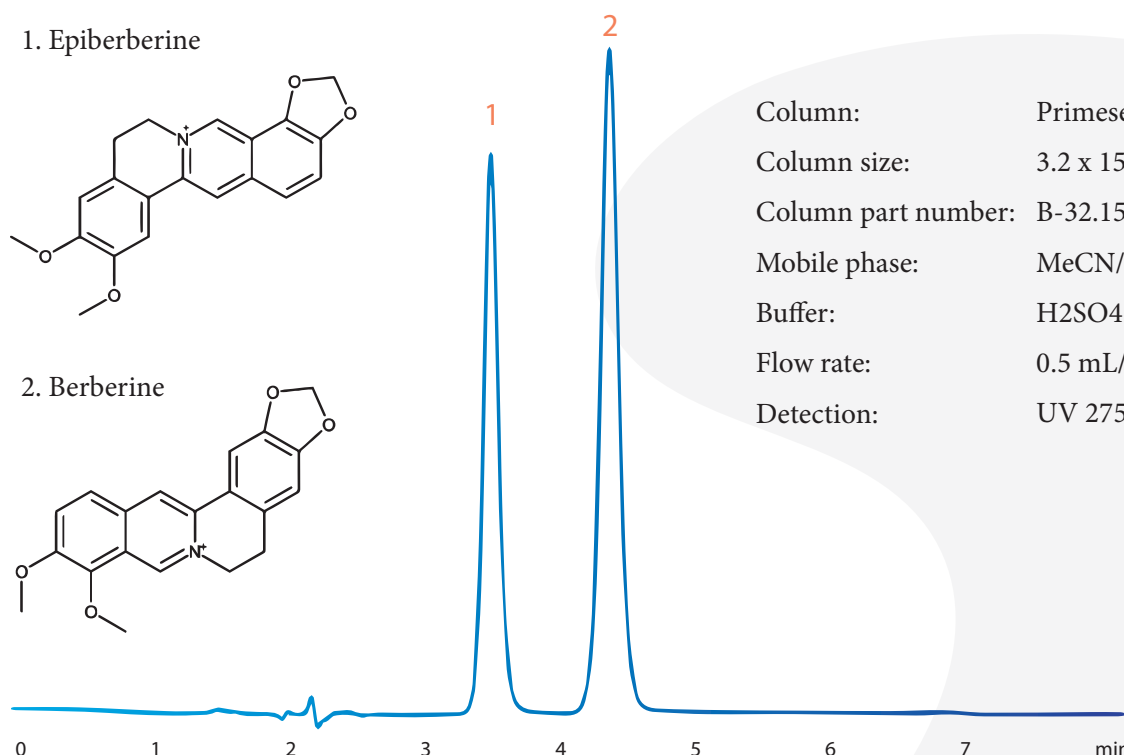
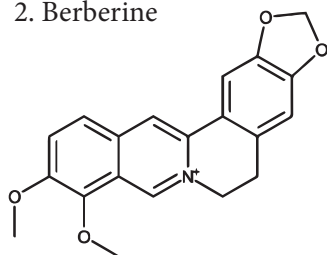
Column: Newcrom R1  
Column size: 3.2 x 50 mm, 3 pm  
Column part number: NR1-32.050.0310  
Mobile phase: Gradient MeCN 50% to 90% in 6 min, hold at 90% for 2 min  
Buffer: Formic Acid - 0.1%  
Flow rate: 0.5 mL/min  
Detection: UV 275 nm

Legend for method: Isocratic HPLC Separation of Berberine and Epiberberine on Alltesta™  
Isocratic Automated Analyzer

1. Epiberberine



2. Berberine



Column: Primesep B  
Column size: 3.2 x 150 mm, 5 pm  
Column part number: B-32.150.0510  
Mobile phase: MeCN/H2O - 20/80%  
Buffer: H2SO4-0.1%  
Flow rate: 0.5 mL/min  
Detection: UV 275 nm

# Alltesta Gradient & Isocratic Automated Analyzers

## Applications

Our analyzers are changing labs worldwide:



### Pharmaceutical Industry:

Ensures compliance by assessing APIs, excipients, and drug purity.



### Environmental Testing:

Detects pollutants in water, air, and soil to monitor their environmental impact.



### Food and Beverage Industry:

Detects contaminants and natural ingredients including preservatives, vitamins, flavors, dyes, and other components to ensure product safety and quality.



### Chemical and Petrochemical Industries:

Analyzes compounds in different chemical processes to monitor reactions, product purity, cross-contaminations, cleaning validation and other analytical tasks typical for chemical manufacturing.



### Cosmetics Industry:

Measures active ingredients and excipients for product safety and quality compliance.



### Educational Institutions:

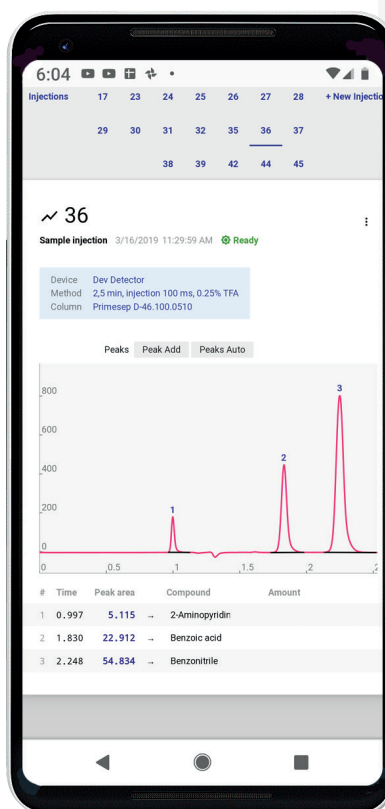
Most affordable and simple to operate instrument for teaching chromatography techniques in academic labs.



### Research and Development:

Unparallel separation tool for academic and corporate R&D labs.

**Alltesta™**  
**Automated Analyzer:**  
**Liquid Chromatography**  
**Made Simple**





## 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

The Alltesta™ Gradient Automated Analyzer and Alltesta™ Isocratic Automated Analyzer are high-quality solutions for laboratory research, delivering precision, convenience, and reliability. We offer free method customization tailored to your substances, live support, and seamless integration with the powerful HPLC.cloud software.

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

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

