



AUTOPLAK

Efficiency for the
microbiology laboratory

The AUTOPLAK fully automates front-end plate streaking processes, broth inoculation, slide preparation, bi-plate streaking, and disk dispensing for liquid samples, enhancing productivity and ensuring reliability.

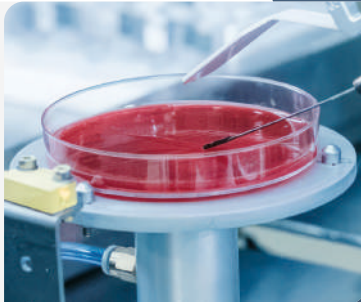


“In the current context, AUTOPLAK stands out as an innovative, high-tech solution that enhances *laboratory efficiency* while ensuring *quality service and reliable results*, all while optimizing footprint.”

PROCESSES AND WORKFLOW

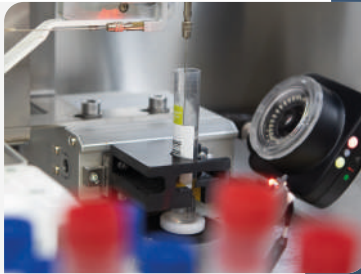
Plate streaking

Enhance the efficiency of your laboratory by automating inoculation and streaking. AUTOPLAK is a flexible and configurable system that uses four different inoculation loops and allows customization of streaking protocols, as well as accepts a wide variety of tubes and culture media.



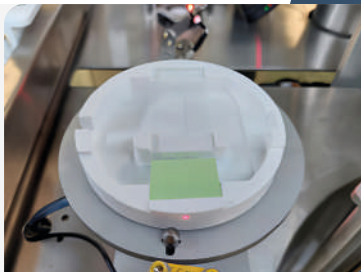
Broth inoculation

Expand the functionality to the Advanced variant with our broth inoculation module to inoculate enrichment broth with barcode printing on the tube.



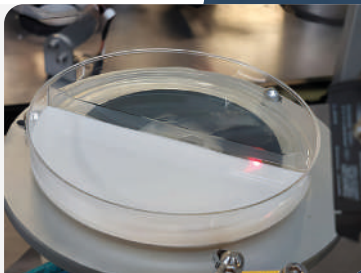
Slide preparation

Expand the functionality to the Advanced variant with AUTOPLAK's Gram slide preparation module to streak and barcode Gram slides.



Bi-plate streaking

Our bi-plate streaker optional module permits the streaking on bi-plate media.



Disk dispensing

Our disk diffusion dispenser automatically applies antibiotic disks into the sample. The instrument labels plates and places them in the output column.



6 reasons for choosing *AUTOPLAK*



Productivity, efficiency and reliability

Automating inoculation and streaking, ensuring traceability and repeatability, minimizing the risk of contamination through safe and reliable sample processing, simplifying challenging sample processing, and integrating the system into your laboratory's LIS.



Excellent streaking quality

Thanks to a reliable and robust automatic inoculation and streaking process that also prevents cross-contamination and includes a HEPA filter.



Highly versatile

Continuous loading via independent drawers, a wide range of automatically detected tubes and media, Gram and bi-plate streaking, inoculation in enrichment media and antibiotic disks dispenser.



Flexibility for customised configuration

Two instrument variants (Advanced and Complete) are available to meet different laboratory needs and processes, with optional features to enhance functionality.



We optimise space in the laboratory

AUTOPLAK is the most compact system, requiring the least space in the laboratory. It can be wall-mounted to optimize space.



Quick to install and ergonomic

AUTOPLAK is quickly installed without disrupting laboratory workflows and is optimized for ergonomic use.

VARIANTS AND OPTIONALS

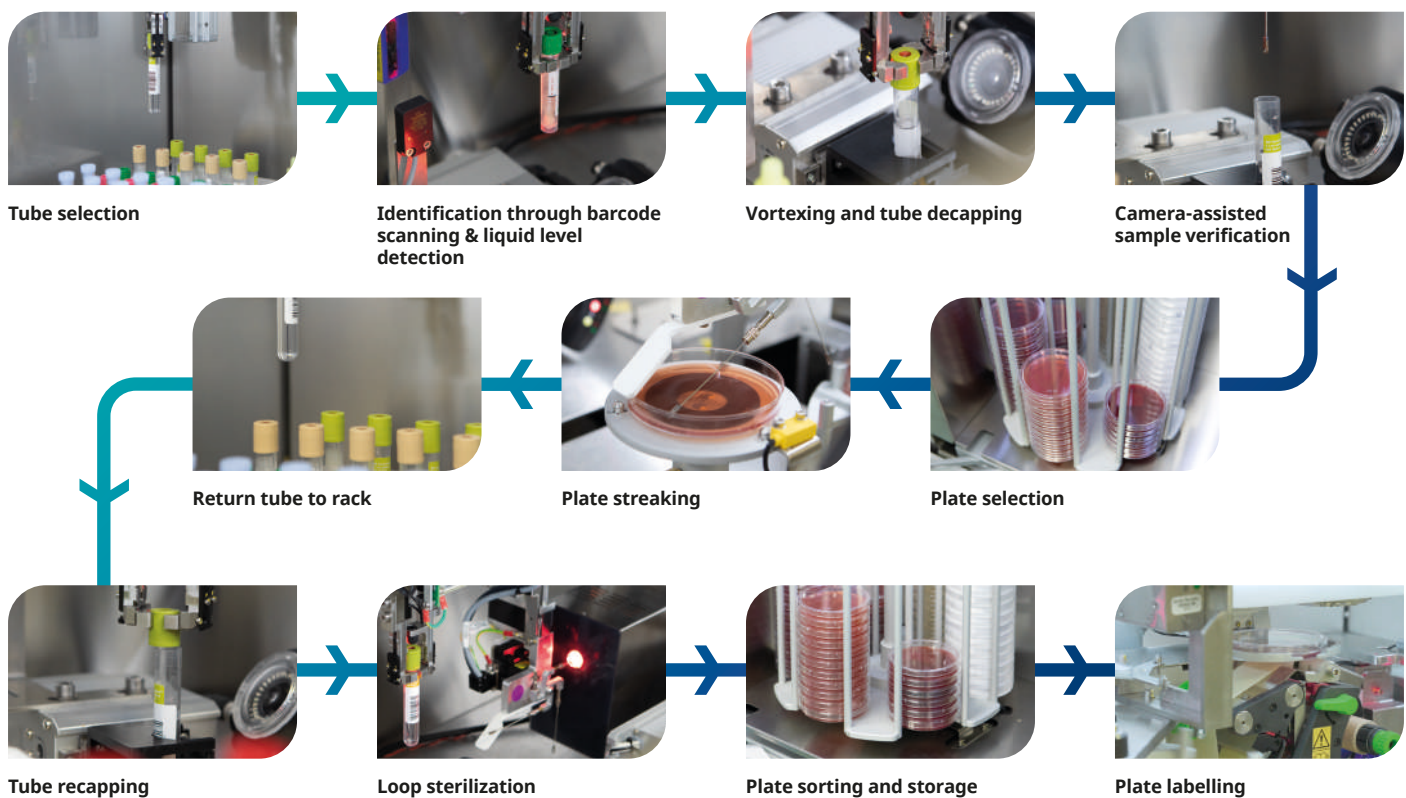
Sener offers two distinct variants of the AUTOPLAK product: the Complete variant and the Advanced variant. Each variant is designed to address the unique needs of different laboratories. Furthermore, both options can be enhanced with a comprehensive selection of optional accessories,

providing the flexibility to customize solutions according to specific laboratory requirements and workflows. This adaptability ensures that laboratories can optimize their processes, improve efficiency, and achieve better results in their operations.

COMPLETE variant subsystems and processes:

Our Complete variant offers a robust set of essential features specifically designed to optimize your laboratory operations. This variant encompasses a comprehensive range of critical processes that are necessary for enhancing both efficiency and productivity within the lab environment. By integrating these key functionalities,

the Complete variant enables laboratories to streamline workflows, reduce turnaround times, and ensure consistent quality in their results. With a focus on improving operational effectiveness, this solution serves as a vital tool for laboratories looking to achieve their goals while maintaining high standards of performance and reliability.

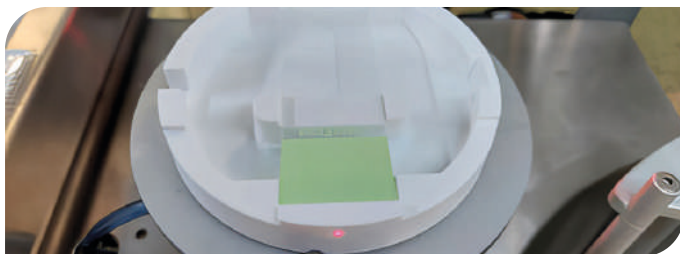


ADVANCED variant components:

The AUTOPLAK Advanced variant includes all the components found in the Complete system, along with several additional features that enhance its functionality. These extra capabilities are

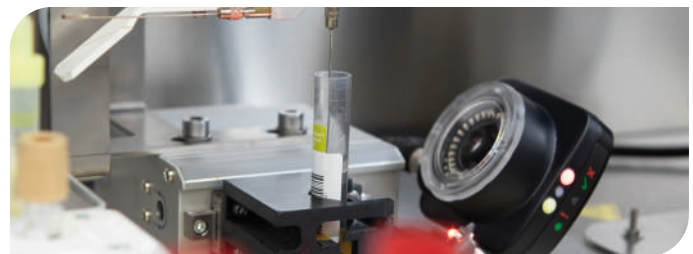
designed to further improve laboratory operations, providing users with greater flexibility and efficiency in their processes, ultimately helping them achieve better results.

Gram slide preparation module



To streak Gram slides and add barcode printing directly to the slides for improved tracking and identification in the laboratory.

Enrichment broth inoculation module



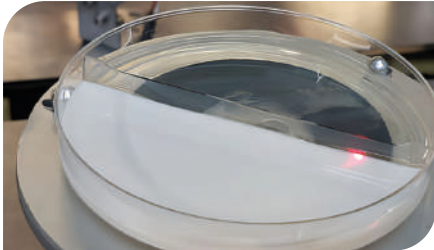
To inoculate enrichment broth while incorporating barcode printing on the tube for better tracking and identification in the laboratory.

Optional modules (sold separately):

Enhance the system's capabilities by integrating our optional modules, which allow for greater scalability and improved functionality. These modules can be tailored to meet your specific

needs, ensuring that your laboratory can adapt and grow with evolving requirements and challenges.

Bi-plate module



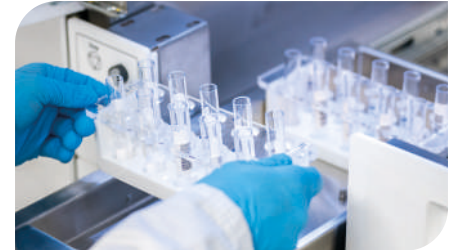
To automatically streak and label bi-plates, streamlining the process for enhanced efficiency and accuracy in laboratory workflows.

Disk diffusion dispenser module



To automatically dispense disks and label plates, improving efficiency and accuracy in laboratory procedures while reducing manual handling and errors.

No caps software module

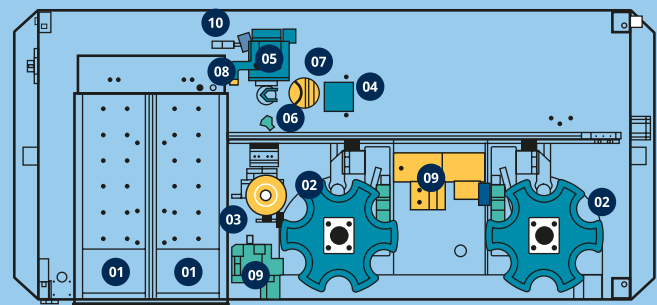


To use AUTOPLAK with uncapped tubes, facilitating easier access and efficient processing while maintaining the integrity of the samples.

“AUTOPLAK is a great and versatile equipment which really helps us to *increase productivity* and *ensure efficiency and reliability*. It is easy to handle and has an useful interface, which allows our technical team input and set up the required information to process samples, run and analyze the process.”

Physical

| | | |
|----|----------------------------|--|
| 01 | 2 independent drawer doors | To load and unload without interruption sample tubes and the enrichment media tubes on racks |
| 02 | 2 carousels of 6 silos | Configurable as I/O carousels and accessible through side-opening doors |
| 03 | Inoculation table | Where plates are streaked and slides prepared |
| 04 | Incinerator | IR heater to sterilize the inoculation loops |
| 05 | Vortex/Vortex grippers | To hold and vortex the sample tube for homogenization |
| 06 | Drop projector LED | To verify the inoculation loop is filled with sample |
| 07 | and camera | |
| 08 | Liquid level sensor | To ensure the inoculation loop can correctly pick up the sample by verifying the level is sufficient |



| | | |
|----|----------------------|---|
| 09 | Plates printer | Printers area for all protocols |
| 10 | Barcode reader | To read the barcodes of the selected sample tube for traceability |
| | HEPA filter | To provide a safe-working environment |
| | Touch screen monitor | With included software |
| | UPS | To provide emergency power |

GENERAL SPECIFICATIONS

| | |
|---|---|
| Dimensions | 92cm D x 185cm W x 200cm H |
| Weight | ~500 kg |
| Electrical Power | 220–240V Single Phase AC, 1500 W max, 50/60 Hz, 10A for 200–240 VAC operation |
| IP CEI 60529 degree of protection (For indoor use only) | IP 20 |
| Noise level | LpA <65 dB (A) |
| Average and peak power | 600 VA / 1100 VA |
| Power plug | Type E+F (CEE 7/7) |
| Temperature (operating) | 10° to 30°C |
| Temperature (storage) | -10° to 40°C |
| Relative humidity | 40% to 80% (without condensation) |
| Lamp specification | 19.2 W flexible cool white light LED strips (5500 K) |
| Degree of pollution | II |
| Maximum operating altitude | 1500 m |
| Installation category | II |
| Operator interface | 17" touch screen monitor with UI |
| Interface LIS interface | Available upon request |
| Network | Ethernet 1Gb |
| Operating system | W10 |
| Capacity of sample tubes | 2 independent drawers of 60 tubes each with a total capacity of 120 tubes |
| Capacity of plates | 12 silo carousels for plated media with a capacity of 480 culture plates |
| Capacity of disks | 3 systems with 6 positions/each for 50 tablets/each with a total capacity of 900 disks |
| Processing capacity (pattern-dependant) | Average rate of 105 plates streaked per hour. Max 120 plates. |
| Certifications | CE IVDR, CSA, and in compliance with 61010 for laboratory use & IVD medical equipment Standard for Safety for Electrical Equipment for Laboratory Use |

FUNCTIONAL SPECIFICATIONS

Media plate specifications*

| | |
|----------------|--|
| Base diameter | 87 mm <D <88 mm |
| Cover diameter | (d + 2 mm) <D <(d + 5.5 mm), subject to the following condition: (91 <D <92) |
| Plate height | 14 mm <H <15.2 mm |
| Cover height | 6 mm <H <8 mm |

Sample container specifications*

| | |
|------------------------|--|
| Material | Plastic |
| Types | <ul style="list-style-type: none"> • Tubes with screw caps • Tubes with solid pressure cap • Tubes with hollow pressure cap • Vacuum tubes |
| Lower extremity shapes | <ul style="list-style-type: none"> • Cylindrical tip with a diameter of <13 mm • Hemispherical tip • Conical tip with a diameter >15mm and the length of the cone is <12 mm |
| Tube dimensions | <ul style="list-style-type: none"> • Height (including cap) must be between 82 mm and 125 mm • Diameter must be between 12.50 mm and 15.75 mm with the following restrictions: <ul style="list-style-type: none"> - If the height is >100 mm, the diameter must be >14.00 mm - If the height is >110 mm, the diameter must be >15.50 mm |

Barcode

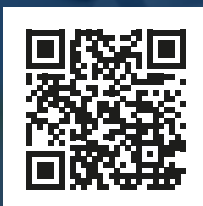
| | |
|--|--|
| Default barcode | Code 128 |
| Standard barcodes accepted for sample tube | EAN/UPC, Code 39, Code 32, Code 128, GS1-1 28, ISBT 128, Interleaved and Standard 2 of 5, Codabar, ABC Codabar, GS1, Databar (Omnidirectional, limited, Expanded), Code 93, Code 11 and MSI The barcode printed on plates is Code 128 |

* Ask for the complete list of validated media and tubes



Expand AUTOPLAK into our *complete solution*, Ai5 Lab

Discover how to enhance
microbiology lab workflows:





www.sener.com

**It's not just about automation;
it's about *adding value* through automation.**

Specifications subject to modifications. AUTOPLAK is a registered trademark of Sener Diagnostics SA. All other trademarks are the property of their respective owners.
For Sener's worldwide office locations and phone numbers visit: www.sener.com - © 2024 Sener Diagnostics SA. All rights reserved.
Creu Casas i Sicart, 86-88 (Parc de l'Alba) - 08290 Cerdanyola del Vallès (Spain) - www.diagnostics.sener - Follow us: - Revision: October 2024