

# AutoStreak *S1800*

## Microbial Sample Pretreatment System



# Product Advantages

## High efficiency

- Single-person operation, with a treatment speed of 180 plates/hour, can meet all laboratory sample size requirements and automatically complete sputum digestion in five minutes, without manually adding digestive fluid and standing for 30 minutes, saving time and effort
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## High standard

- 10 ul quantitative inoculation
  - International patent inoculation brush for streaking, with higher plate utilization and single colony isolation rate
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## Four measures to effectively control biosafety

- Negative pressure inner chamber of the imitation biosafety cabinet, with an exhaust air volume of 17.6 m<sup>3</sup>/min, and an air replacement frequency of 14 cycles/minute
  - High efficiency HEPA filtration, with a filtration efficiency of 0.3 um 99.995%
  - Cover opening and closing inside the sample machine
  - Double UV timing disinfection of the machine interior and waste bin
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## Flexible operation

- Free setting of plate types
  - Free setting of plate loadout according to the culture environment
  - Automatic treatment of abnormal samples
  - Independent storage area of abnormal samples, without affecting the batch treatment efficiency of samples
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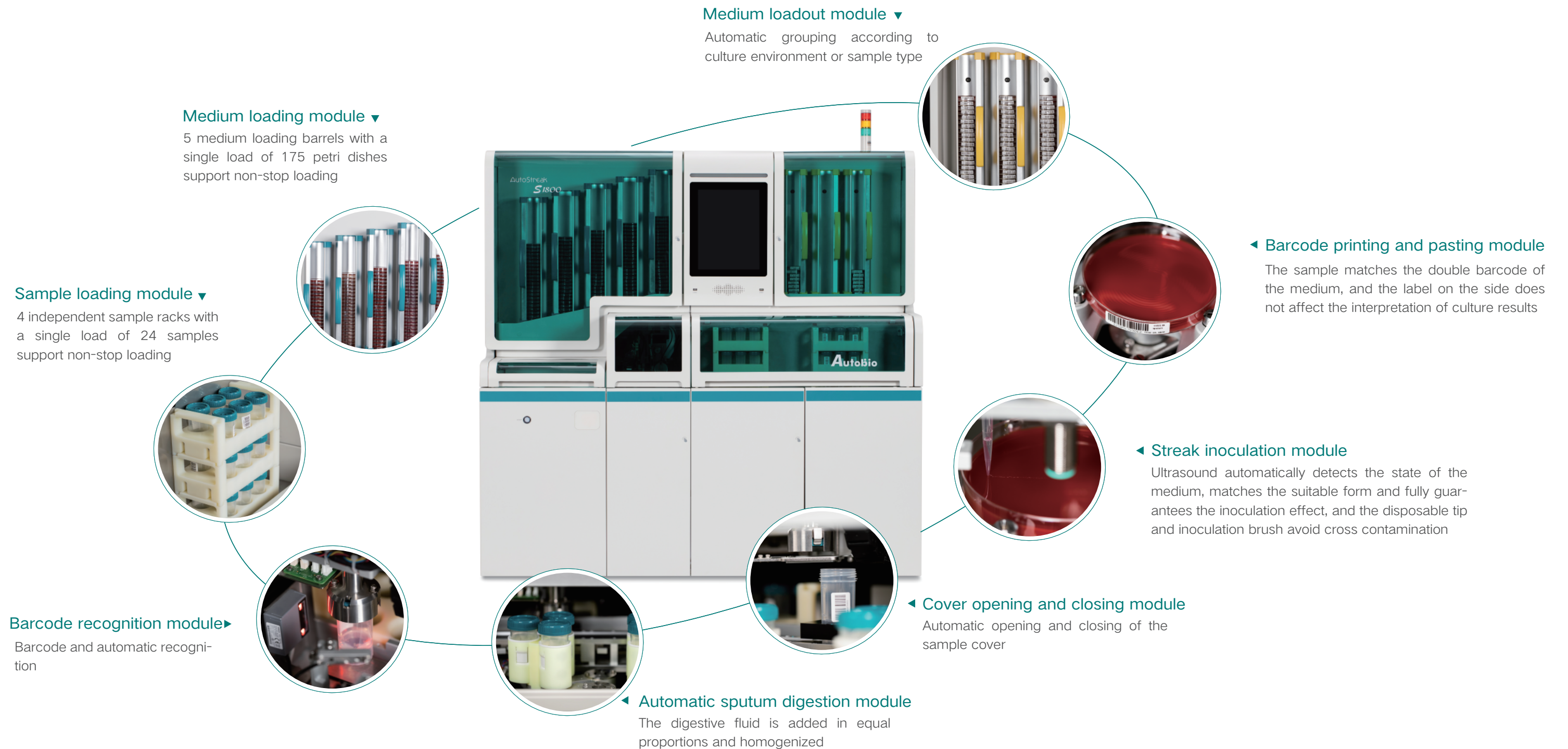
## Software system

- Real-time monitoring of consumable consumption and experiment progress, dynamic large-screen display, and audible and visual alarm
- It can be connected with Lis software and Autobio microbiology laboratory information system to realize the whole process management of sample information

# AutoStreak S1800 Microbial Sample Pretreatment System

Sample pretreatment is a key step in microbiology. Rapid, effective and standard sample pretreatment is one of the important conditions for reliable, efficient and rapid diagnosis results. Meanwhile, sample pretreatment is a time-consuming and laborious repetitive activity, which occupies a large amount of analysis time for experienced personnel, and biosafety risks exist in the manual inoculation process for operators, which is difficult to avoid the influence of human factors on the results. Automated and standardized microbial sample pretreatment system can make microbial sample pretreatment more efficient, process more standardized, results more accurate, and personnel safer.

AutoStreakS1800 microbial sample pretreatment system can perform a series of operations on sputum, urine and other liquid samples, such as code scanning, automatic opening and closing of the cap, homogenization, quantitative streak inoculation, barcode printing and pasting, etc., to achieve standardized operation and improve the bacterial isolation rate.



## Technical Parameters

Sample loading capacity	•	24 (can be randomly injected)
Injection method	•	Random injection
Automatic cover opening and closing function of the sample cup	•	Yes
Abnormal sample treatment	•	Abnormal sample discharge function
Petri dish size	•	90 mm plate
Maximum loading capacity of petri dishes	•	175 (can be supplemented without stopping the machine)
Inoculation speed	•	Up to 180 plates/h
Inoculation method	•	Streak inoculation with an inoculation brush
Inoculation volume	•	10 ul, 15 ul, and 20 ul
Number of inoculation brushes	•	240 (can be supplemented without stopping the machine)
Number of tips (with filter element)	•	192 (can be supplemented without stopping the machine)
Barcode printing and pasting	•	Side of the petri dish
Barcode scanning function	•	Yes
Operation interface	•	Touch screen
High efficiency filtration function	•	H14 high efficiency filter element
UV disinfection function	•	UV lamp

## Operating Conditions

Ambient temperature	•	10°C~30°C
Ambient humidity	•	≤ 85%
Atmospheric pressure	•	85kPa~106kPa
Supply voltage	•	AC 220V ± 22V, 50Hz ± 1Hz
Rated power	•	1kVA

## Main Unit Size

1,586mm × 900mm × 1,700mm

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